

**CERTIFIED
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**BEFORE THE
CALIFORNIA WASTE MANAGEMENT BOARD
FOR THE STATE OF CALIFORNIA**

IN THE MATTER OF THE:)
)
REGULAR MONTHLY BOARD MEETING)
NOVEMBER 1988)
-----))

DATE AND TIME: FRIDAY, NOVEMBER 18, 1988, 9:00 A.M.

**PLACE: SAN DIEGO COUNTY BUILDING
 1600 PACIFIC HIGHWAY
 ROM 303
 SAN DIEGO, CALIFORNIA**

**REPORTER: BETH C. DRAIN, CSR
 CERTIFICATE NO. 7152**

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11/11/11

APPEARANCES

MR. JOHN E. GALLAGHER, CHAIRMAN
MR. JOHN C. MOSCONE (NOT PRESENT)
MR. SAM ARAKALIAN
MR. PHILLIP BEAUTROW
MRS. GINGER BREMBERG
MR. E. L. VARNER
MR. LES BROWN
MR. JAMES W. CALLOWAY (NOT PRESENT)

STAFF PRESENT

MR. GEORGE EOWAN, EXECUTIVE OFFICER
MR. HERBERT IWAHIRO, CHIEF DEPUTY EXECUTIVE OFFICER
MR. ALAN OLDALL, DEPUTY EXECUTIVE OFFICER
MS. JOELLEN JACKSON, DIRECTOR OF LEGISLATION
AND PUBLIC AFFAIRS
MR. ROBERT F. CONHEIM, GENERAL COUNSEL

MR. GEORGE LARSON
MR. DON DIER
MS. MCNABB
MR. MITCH TALMADGE

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1 NOVEMBER 18, 1988

2 CALIFORNIA WASTE MANAGEMENT BOARD

3
4 CHAIRMAN GALLAGHER: CALL THE MEETING OF THE
5 CALIFORNIA WASTE MANAGEMENT BOARD TO ORDER.

6 MS. REPORTER: MICROPHONE, MR. GALLAGHER, IS IT
7 ON?

8 CHAIRMAN GALLAGHER: SAYS ON. THAT'S ALL I CAN
9 TELL YOU. IF I NEED TO YELL, JUST LET ME KNOW.

10 MS. REPORTER: I WILL, THANK YOU.

11 CHAIRMAN GALLAGHER: ITEM NO. 11 ON THE AGENDA
12 IS CONSIDERATION OF DETERMINATION OF CONFORMANCE AND
13 CONCURRENCE IN THE ISSUANCE OF A SOLID WASTE FACILITIES
14 PERMIT FOR THE BURBANK LANDFILL EXPANSION IN LOS ANGELES
15 COUNTY.

16 MR. IWAHIRO: AGAIN, MR. CHAIRMAN, THIS IS A
17 SIMILAR TYPE OF ACTION WE'RE ASKING THAT WE DID YESTERDAY
18 ON A NUMBER OF FACILITIES. GEORGE LARSON, FROM OUR
19 PLANNING SECTION, AND DON DIER, FROM OUR PERMIT SECTION,
20 WILL GIVE US THE BACKGROUND AND REQUEST THE ACTION.

21 MR. LARSON: GOOD MORNING, MR. CHAIRMAN,
22 MEMBERS.

23 YES, THE ACTION IS FOR A DETERMINATION OF
24 CONFORMANCE AND ISSUANCE OF A SOLID WASTE FACILITY PERMIT
25 FOR THE EXPANSION OF THE BURBANK LANDFILL SITE NO. 3 IN

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1 LOS ANGELES COUNTY.

2 I WILL ADDRESS THE PLANNING ASPECTS OF THE
3 ACTION TO BE TAKEN BY THE BOARD AND THEN TURN IT OVER TO
4 MR. DON DIER, WHO WILL THEN ADDRESS THE ISSUANCE OF THE
5 PERMIT.

6 THIS IS A CLASS III LANDFILL THAT HAS BEEN
7 IN OPERATION SINCE 1953, AND THE EXPANSION IS FROM 24
8 ACRES TO 86 ACRES. THIS EXPANSION WILL PROVIDE ALMOST 80
9 YEARS OF DISPOSAL CAPACITY FOR THE CITY OF BURBANK, AND
10 SINCE IT IS THE -- WILL BE THE EXCLUSIVE USER OF THE
11 FACILITY. IT IS PROPOSED TO RECEIVE 240 TONS A DAY OR
12 APPROXIMATELY 6,000 TONS A MONTH.

13 TO TAKE AN ACTION ON THE DETERMINATION OF
14 CONFORMANCE IN THE ISSUANCE OF A SOLID WASTE FACILITY
15 PERMIT IS A DISCRETIONARY ACT WHICH INVOKES THE
16 REQUIREMENT FOR THE PROPONENT TO COMPLY WITH THE
17 CALIFORNIA ENVIRONMENTAL QUALITY ACT OR CEQA. THEREFORE,
18 THE BOARD STAFF HAVE REVIEWED THE ACTIONS TAKEN AT THE
19 LOCAL LEVEL TO COMPLY WITH CEQA.

20 THE CITY OF BURBANK ELECTED TO COMPLETE AN
21 ENVIRONMENTAL IMPACT REPORT, WHICH THEY HAVE DONE; AND IN
22 THAT ENVIRONMENTAL IMPACT REPORT, THE CITY HAS ADDRESSED
23 THE IMPACTS AND MITIGATION MEASURES FOR THE GEOLOGY, AIR
24 QUALITY, WATER QUALITY, ODORS, AESTHETICS, LAND USE,
25 TRAFFIC, AND PUBLIC HEALTH AND SAFETY ISSUES. THESE ARE

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1 ARE LISTED IN DETAIL ON PAGES 190 TO 193 OF YOUR
2 DOCUMENT -- OF YOUR PACKET, SHOULD YOU WISH TO EXAMINE
3 CLOSELY THE ACTIONS TAKEN BY THE COUNTY --- BY THE CITY OF
4 BURBANK.

5 IT IS IMPORTANT, I BELIEVE, TO NOTE, TOO,
6 THAT IN THE EIR PROCESS THERE ARE TWO SITUATIONS WHICH
7 WERE THE COUNTY WAS UNABLE TO MITIGATE AND THESE ARE THE
8 LOSS OF 62 ACRES OF UNDISTURBED MOUNTAIN RESERVE LAND AND
9 ALSO THE FACT THAT THE LANDFILL WILL BE HIGHLY VISIBLE
10 FROM MANY LOCATIONS.

11 DURING THE PROCESS OF THE DETERMINING WHAT
12 ACTIONS TO TAKE FOR ADDITIONAL LANDFILL CAPACITY, THE
13 CITY OF BURBANK EVALUATED FIVE ALTERNATIVES IN ADDITION
14 TO THE SELECTED COURSE OF ACTION. THESE WERE TWO
15 ALTERNATE LANDFILL LOCATIONS, THE TRANSFERRING OF WASTE
16 OUT OF THE CITY, RECYCLING, WASTE-TO-ENERGY, AND WHAT'S
17 CALLED THE NO-PROJECT OPTION.

18 AFTER CONSIDERATION, THE CITY OF BURBANK
19 ELECTED THAT THE EXPANSION OF THE EXISTING FACILITY WOULD
20 HAVE THE LEAST ECONOMIC AND ENVIRONMENTAL IMPACTS, HENCE
21 THAT'S THE COURSE THEY CHOSE.

22 THE EIR WAS CERTIFIED ON OCTOBER 8, 1985,
23 AND THE NOTICE OF DETERMINATION IS IN THE PACKET ON PAGE
24 198 FOR YOUR REVIEW. IN ORDER TO TAKE AN ACTION FOR A
25 FINDING OF DETERMINATION OF CONFORMANCE. THE BOARD HAS

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1 ESTABLISHED CERTAIN CRITERIA THAT HAVE TO BE MET. AMONG
 2 THESE ARE A LOCAL FINDING OF THE CONFORMANCE -- FINDING
 3 OF CONFORMANCE AT THE LOCAL LEVEL, WHICH ON DECEMBER 18,
 4 1986, THE LOS ANGELES COUNTY SOLID WASTE MANAGEMENT
 5 COMMITTEE MADE SUCH A LOCAL FINDING.

6 ALL OTHER LOCAL ACTIONS HAVE BEEN
 7 COMPLETED. AND THE BOARD, IN DETERMINATION OF
 8 CONFORMANCE, HAS ESTABLISHED FOUR CRITERIA THAT MUST BE
 9 SATISFACTORILY MET. ONE IS CONSISTENCY WITH STATE
 10 POLICY. THE ESTABLISHMENT OF THIS PROPOSED FACILITY IS
 11 CONSISTENT WITH THE STATE POLICY PROVIDING
 12 ENVIRONMENTALLY SOUND AND ECONOMIC WASTE MANAGEMENT.

13 SECOND CRITERIA IS CONSISTENCY WITH THE
 14 POLICIES AND OBJECTIVES OF THE COSWMP. THIS PROJECT, IF
 15 IMPLEMENTED, IS CONSISTENT WITH THE OBJECTIVES OF THE
 16 COSWMP. AND CRITERIA THREE, WITH CONSISTENCY WITH SHORT,
 17 MEDIUM, AND LONG-TERM FACILITY ELEMENTS OF THE COSWMP.
 18 THIS FACILITY IS SPECIFICALLY IDENTIFIED IN THE COSWMP
 19 AND, THEREFORE, MEETS THAT CRITERIA. AND, FINALLY, LOCAL
 20 ISSUES AND PLANNING ITEMS MUST BE ADDRESSED.

21 THE CITY OF BURBANK HAS OBTAINED ALL THE
 22 APPROPRIATE APPROVALS AND HAS INCORPORATED THE FACILITY
 23 INTO THE GENERAL PLAN.

24 IN CONCLUSION, THE PROPOSED PROJECT MEETS
 25 ALL FOUR BOARD CRITERIA FOR A FINDING OF DETERMINATION OF



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1 CONFORMANCE.

2 THIS COMPLETES MY PRESENTATION ON THE
3 PLANNING ASPECTS OF THE PROPOSED EXPANSION. I'D LIKE TO
4 INTRODUCE DON DIER TO ADDRESS THE PERMIT ISSUANCE ITEMS.

5 MR. DIER: GOOD MORNING. THE LOCAL ENFORCEMENT
6 AGENCY, LOS ANGELES COUNTY DEPARTMENT OF HEALTH SERVICES,
7 HAS SUBMITTED A PROPOSED PERMIT AND AN UPDATED REPORT OF
8 DISPOSAL SITE INFORMATION TO THE BOARD FOR CONSIDERATION.

9 INCLUDED IN THE PERMIT IS A PERMITTED DAILY
10 CAPACITY OF 240 TONS PER DAY AND ALSO A LIMIT OF 6,000
11 TONS PER MONTH. AN INTERESTING ASPECT OF THE PERMIT,
12 ALSO, IS -- AND THIS IS WHAT THE LEA IN LOS ANGELES
13 COUNTY IS DOING WITH ALL PERMITS, EITHER NEW OR REVISED
14 PERMITS AS THEY COME UP FOR REVISION -- INCLUDING A LOAD
15 CHECKING PROGRAM FOR ALL THE LANDFILL PERMITS. THIS
16 PERMIT DOES INCLUDE A LOAD CHECKING PROGRAM.

17 I'D LIKE TO POINT OUT THAT REVISED WASTE
18 DISCHARGE REQUIREMENTS WERE ADOPTED IN SEPTEMBER OF 1988
19 FOR THE LANDFILL, SO EVERYTHING APPEARS TO BE UP-TO-DATE
20 AND IN PLACE. THE LOCAL ENFORCEMENT AGENCY MADE THE
21 NECESSARY THREE FINDINGS IN SUBMITTING THE PERMIT TO THE
22 BOARD. THE PERMIT IS CONSISTENT WITH THE LOS ANGELES
23 COUNTY SOLID WASTE PLAN. THE FACILITY HAS PROVEN THAT IT
24 CAN OPERATE IN COMPLIANCE WITH AND, THEREFORE, IS
25 CONSISTENT WITH STATE STANDARDS. AND THE FACILITY IS

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1 DESIGNATED IN THE BURBANK GENERAL PLAN.

2 STAFF HAS REVIEWED THE PERMIT AND
3 DOCUMENTATION AND FIND EVERYTHING TO BE IN ORDER AND IS
4 ABLE TO RECOMMEND TO YOU THIS MORNING THAT YOU ADOPT
5 DETERMINATION OF CONFORMANCE NO. 88-16 AND PERMIT
6 DECISION NO. 88-68.

7 IF THERE ARE NO QUESTIONS OF MYSELF, WE
8 HAVE REPRESENTATIVES OF THE CITY OF BURBANK AND A
9 CONSULTANT TO THE CITY HERE THIS MORNING TO ANSWER ANY
10 QUESTIONS YOU MAY HAVE OF THEM ALSO.

11 CHAIRMAN GALLAGHER: ANY QUESTIONS OF MR. DIER?
12 MR. BEAUTROW.

13 BOARD MEMBER BEAUTROW: EITHER -- MAYBE YOU CAN
14 ANSWER THIS OR SOMEONE ELSE, BUT IT CAME TO MY ATTENTION
15 RECENTLY THAT THIS DESIGNATED IN THE GENERAL PLAN HAS
16 BEEN SLIGHTLY MODIFIED BY THE CALDERON BILL. AND MY
17 QUESTION IS WHEN WE SAY DESIGNATED IN THE GENERAL PLAN,
18 WHEN YOU LOOK AT THE CITY OF BURBANK'S GENERAL PLAN, DOES
19 IT SHOW A BLOCK AND SAY LANDFILL OR DOES IT SHOW A GREEN
20 AREA THAT SAYS THIS IS OPEN SPACE OR UNDESIGNATED USE? I
21 MEAN, HOW SPECIFIC IS IT SUPPOSED TO SHOW IN THE GENERAL
22 PLAN, AND DO WE JUST LEAVE IT UP TO THE CITIES OR
23 WHATEVER JURISDICTION TO SAY THAT, YES, IT IS OR WHAT?

24 MR. DIER: IF YOU'D LIKE A SPECIFIC ANSWER FOR
25 BURBANK, I'LL LET THEM ANSWER.

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1 BOARD MEMBER BEAUTROW: I THOUGHT MAYBE WHEN
2 THEY COME UP HERE THEY COULD DO THAT.

3 MR. DIER: IN GENERAL, WHAT THE -- THE
4 GOVERNMENT CODE WAS REVISED A FEW YEARS AGO TO CHANGE THE
5 GENERAL PLAN DESIGNATION REQUIREMENT. WHAT IT REQUIRES
6 NOW IS THAT A FACILITY EITHER BE DESIGNATED SPECIFICALLY,
7 AS IT WAS PREVIOUSLY, AS A DOT ON THE MAP AS A SOLID
8 WASTE FACILITY.

9 THE REVISION A FEW YEARS AGO NOW ALLOWS A
10 GENERAL PLAN TO INDICATE A ZONING, A PARTICULAR TYPE OF
11 ZONING; AND THEN IF WITHIN THAT GENERAL PLAN THERE ARE
12 CERTAIN ACCEPTED USES WITHIN THAT ZONING, SUCH AS A SOLID
13 WASTE FACILITY, THEN THAT IS AN APPROACH THAT IS TAKEN
14 QUITE FREQUENTLY NOW BY LOCAL GOVERNMENT.

15 BOARD MEMBER BEAUTROW: THE OTHER WAS TOO
16 RESTRICTIVE, RIGHT, AND DON'T NECESSARILY GO TO REVISE
17 THEIR GENERAL PLANS ON A REGULAR --

18 MR. DIER: TO GO AND PUT A DOT ON THE MAP AND
19 SAY THIS IS "X" FACILITY.

20 BOARD MEMBER BEAUTROW: I JUST WANTED TO CLARIFY
21 THAT.

22 MR. DIER: RIGHT. IT WAS -- I USE THE TERM
23 LOOSENED, BUT IT WAS LOOSENED, BUT MADE MORE WORKABLE A
24 FEW YEARS AGO.

25 CHAIRMAN GALLAGHER: MS. BREMBERG.



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1 BOARD MEMBER BREMBERG: I WANTED TO ASK MS.
2 HAMILTON A COUPLE OF QUESTIONS FROM THE CITY OF BURBANK.

3 CHAIRMAN GALLAGHER: THANK YOU, DON.

4 MR. DIER: JOY HASMILTON, FROM THE CITY OF
5 BURBANK.

6 MS. HAMILTON: MORNING.

7 CHAIRMAN GALLAGHER: GOOD MORNING. MS. BREMBERG
8 HAS A QUESTION.

9 BOARD MEMBER BREMBERG: UNDER WATER QUALITY IN
10 THE -- AND I KNOW VERY WELL THAT YOU HAVE A VERY GOOD
11 OPERATION OVER THERE. BUT ONE OF THE MITIGATION
12 MEASURES -- I DON'T KNOW IF YOU HAVE THE PACKET OR NOT --
13 BUT SAYS AMOUNT OF WATER USED FOR LANDSCAPING WILL BE
14 KEPT TO A MINIMUM. AND I WOULD LIKE TO ASK HOW AND ARE
15 YOUR PEOPLE UP THERE QUALIFIED TO MONITOR? IS IT AN
16 AUTOMATIC SPRINKLING SYSTEM? WHAT TYPE OF WATER USE OR
17 LANDSCAPING? HOW MUCH AND WHEN AND HOW OFTEN?

18 HAVING RECENTLY BEEN INVOLVED IN A
19 LANDFILL THAT GOT RATTLED A LITTLE IN AN EARTHQUAKE, A
20 LOT OF PROBLEM WAS THE IRRIGATION, LANDSCAPE IRRIGATION.

21 MS. HAMILTON: THE LANDSCAPING AND IRRIGATION
22 PLAN THAT WE'RE HAVING DESIGNED RIGHT NOW IS TAKING ALL
23 OF THAT CRITERIA INTO CONSIDERATION. AND THE FIRM THAT
24 WE'VE HIRED, SCS ENGINEERS, IS DESIGNING A SYSTEM THAT
25 HAS MOISTURE SENSORS FOR EVERY UNIT THAT APPLIES WATER TO

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1 THE LANDSCAPING AREA.

2 AGAIN, MODELING OF THE WATER GENERATION AND
3 HOW IT WILL INFILTRATE THROUGH THE LANDFILL AND RUN OFF
4 WILL ALSO BE PRESENTED TO THE WATER QUALITY CONTROL BOARD
5 FOR THEIR APPROVAL BEFORE WE CAN EVEN CONSTRUCT THE
6 PROJECT NOW.

7 BOARD MEMBER BREMBERG: I KNOW, BUT THAT DOESN'T
8 MEAN THAT WHAT YOU PRESENT AND WHAT ACTUALLY HAPPENS IS
9 SOMETIMES 10 OR 15 DIFFERENT THINGS. I JUST WONDERED IF
10 THERE WERE ANY -- I'M REALLY JUST TRYING TO HELP YOU
11 BECAUSE YOU GET TOO MUCH WATER, YOU'VE GOT SERIOUS
12 PROBLEMS.

13 MS. HAMILTON: I THINK THAT'S WHY THEY'RE
14 REQUIRING ALL THE SENSING DEVICES NOW BEFORE ANY WATER
15 WILL GO ON. IT WON'T BE AN AUTOMATIC THING WHERE WATER
16 COMES ON EVERY MONDAY, TUESDAY, AND WEDNESDAY AT CERTAIN
17 TIME. IT COMES ON WHEN THE SOIL IS DRY AND THE
18 VEGETATION IS GOING TO BE -- NEED TO BE WATERED.

19 WHAT WE'RE PLANNING IS TO USE DROUGHT
20 TOLERANT --

21 MS. REPORTER: I'M SORRY. I CAN'T HEAR YOU.
22 WILL YOU SPEAK UP A LITTLE BIT?

23 MS. HAMILTON: -- PLANTINGS SO THAT THE AMOUNT
24 OF WATER THAT EVEN WILL BE REQUIRED ON THE INITIAL
25 STARTUP WILL BE MINIMAL. IT'S A JUST A MATTER OF GETTING

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1 THE PLANTS STARTED AND THEN LETTING THEM GO ON THEIR OWN.
2 THE IRRIGATION SYSTEM WILL BE A BACKUP FOR THOSE DROUGHT
3 SEASONS LIKE WE'RE IN RIGHT NOW. THAT'S OUR PLANTING
4 MATERIAL RIGHT NOW, OUR PLANT MIX.

5 BOARD MEMBER BREMBERG: OKAY. YOU HAVE NO PLANS
6 TO CHANGE THE USE OF THE LANDFILL FROM RESIDENTIAL WASTE
7 CARRIED IN MUNICIPAL TRUCKS. YOU ARE NOT GOING TO BRING
8 IN COMMERCIAL DEMOLITION OR PRIVATE HAULERS RESIDENTIAL
9 WASTE. THAT REMAINS.

10 MS. HAMILTON: JUST FROM OUR MUNICIPAL CREWS.

11 BOARD MEMBER BREMBERG: THANK YOU.

12 CHAIRMAN GALLAGHER: THANK YOU.

13 BOARD MEMBER VARNER: WHAT WILL HAPPEN TO THE
14 OTHER WASTE? YOU SAY JUST FROM MUNICIPAL YOUR MUNICIPAL
15 TRUCKS. WHAT HAPPENS TO THE OTHER WASTE THAT'S
16 GENERATED?

17 MS. HAMILTON: WE COLLECT ALL OF THE RESIDENTIAL
18 WASTE IN THE CITY AND ABOUT ONE-THIRD OF THE COMMERCIAL
19 WASTE. WE HAVE AN OPEN SERVICE AND ANYONE WITHIN THE
20 CITY CAN ASK FOR CITY SERVICE. IT JUST DEPENDS ON THE
21 USER RATE AND IF OTHER -- WE LET ANYBODY COME AS A FREE
22 ENTERPRISE SYSTEM. AND IF THEY RECEIVE THE ACCOUNTS,
23 THEN TAKE IT TO THEIR LANDFILLS FOR DISPOSAL. ANYONE IN
24 THE CITY CAN OPT FOR CITY SERVICE. AND EVENTUALLY, YOU
25 KNOW, I SUSPECT THAT THEY WILL ALL BE GOING WITH US WHEN

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1 WE HAVE A LANDFILL AND NO ONE ELSE DOES.

2 BOARD MEMBER VARNER: WILL YOUR 240-TON CAPACITY
3 BE SUFFICIENT THEN?

4 MS. HAMILTON: WE BELIEVE IT WILL BECAUSE WE
5 HAVE A RECYCLING PROGRAM THAT HAS ALREADY PROVEN TO BE --
6 IS DOING VERY WELL. WE HAVE A 10-PERCENT REDUCTION RIGHT
7 NOW IN OUR WASTE STREAM. WE'RE NOW MOVING TOWARDS OUR
8 25-PERCENT REDUCTION PLAN. WE'RE WORKING VERY HARD TO
9 PUT OUT THE PUBLIC AWARENESS. WE'RE NOW WORKING WITH
10 SCHOOLS. WE'RE STARTING A BUSINESS RECYCLING PROGRAM.
11 WE'RE GOING FOR THAT 25-PERCENT WASTE REDUCTION RIGHT
12 NOW. SO WE THINK OUR RECYCLING EFFORTS AND EDUCATING THE
13 PEOPLE IS GOING TO BE A BIG HELP IN THE AMOUNT THAT WE
14 EVENTUALLY HAVE TO DISPOSE OF.

15 CHAIRMAN GALLAGHER: ANY FURTHER QUESTION OF MS.
16 HAMILTON.

17 IF NOT, CHAIR WILL TELL YOU THAT WE'RE
18 GOING TO USE THE SAME PROCEDURE TODAY THAT WE USED
19 YESTERDAY, ONE VOTE FOR BOTH OF THE SUBJECTS.

20 IF THERE ARE NO FURTHER QUESTIONS, I'D LIKE
21 A MOTION TO MOVE 88-16 AND 88-68.

22 BOARD MEMBER BREMBERG: MR. CHAIRMAN, IT GIVES
23 ME A GREAT DEAL OF PLEASURE TO HELP MY NEIGHBOR CITY OUT
24 BY MOVING PERMIT FACILITIES, PERMIT DECISION NO. 88-68
25 AND THE CONFORMANCE FACILITY DETERMINATION OF CONFORMANCE

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1 NO. 88-16.

2 CHAIRMAN GALLAGHER: THANK YOU.

3 BOARD MEMBER VARNER: I SECOND.

4 CHAIRMAN GALLAGHER: MR. VARNER SECONDS. IT'S
5 BEEN MOVED AND SECONDED THAT WE MOVE 88-16 AND 88-68. IF
6 THERE IS NO FURTHER DISCUSSION, ALL THOSE IN FAVOR?
7 OPPOSED? SO ORDERED.

8 BOARD MEMBER BEAUTROW: JOHN, I'D LIKE TO MAKE
9 ONE COMMENT. GOING BACK TO THE AMOUNT, THE QUANTITY, I'M
10 GOING TO SAY IT AGAIN, LIKE I'VE SAID IT OVER THE PAST
11 NUMBER OF YEARS. EVERYTHING SHOULD BE ATTEMPT TO SOME
12 KIND OF STANDARDIZATION. IS THIS ON A DAILY AVERAGE? IS
13 IT ON A MONTHLY AVERAGE? IF YOU CAN TAKE THE 240 TIMES
14 THE 22 WORKING DAYS PER MONTH, WHICH I ASSUME, DOESN'T
15 COME OUT 6,000. LET'S TRY TO WHEN WE LOOK AT THESE
16 PERMITS TRY TO SAY THAT ON A SEVEN-DAY BASIS, FIVE-DAY
17 BASIS OR SOMETHING SO WE ALL HAVE THE SAME STANDARD TO
18 MEASURE IT. IS IT ON AN AVERAGE OF 365 DAYS A YEAR OR
19 WHAT? THAT'S ALL. JUST A COMMENT, CONTINUING COMMENT.

20 CHAIRMAN GALLAGHER: THANK YOU, MR. BEAUTROW. I
21 KNOW THAT'S A FAVORITE SUBJECT OF YOURS.

22 BOARD MEMBER BEAUTROW: IT WILL MAKE A
23 DIFFERENCE IF YOU GET DOWN TO THE WIRE AND YOU'RE PUSHING
24 THE LIMIT. IT WILL MAKE A BIG DIFFERENCE.

25 MR. IWAHIRO: SURE, IT DOES.

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1 CHAIRMAN GALLAGHER: I JUST WANTED TO POINT THAT
2 OUT TO SHOW THE CONSISTENCY OF THIS BOARD.

3 WE'RE READY NOW TO MOVE TO ITEM 17 -- 18.

4 MR. IWAHIRO: ITEM 18, MR. CHAIRMAN, IS A -- IS
5 THE ONE ACTION ISSUE IN TERMS OF A CONCURRENCE FOR A
6 PERMIT. BECAUSE THIS IS AN EXISTING SITE, WE'RE JUST
7 MODIFYING THE PERMIT. SO IT DOES NOT HAVE TO HAVE A
8 FINDING OF CONFORMANCE WITH THE COUNTY PLAN.

9 THIS IS A TRANSFER STATION UP IN LAKEPORT
10 WHERE WE'VE HAD A FIVE-YEAR REVIEW. DON DIER WILL CARRY
11 THIS ITEM ALSO.

12 MR. DIER: AS HERB INDICATED, THIS ITEM IS A
13 MODIFIED PERMIT RESULTING FROM THE FIVE-YEAR PERMIT
14 REVIEW BY THE LAKE COUNTY LOCAL ENFORCEMENT AGENCY.

15 THE LAKEPORT TRANSFER STATION IS A LARGE --
16 AN EXISTING LARGE VOLUME TRANSFER STATION THAT BEGAN
17 OPERATION IN 1972. IT IS OWNED BY THE COUNTY OF LAKE AND
18 OPERATED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE
19 FACILITY CURRENTLY RECEIVES AN AVERAGE OF ABOUT 40 TONS
20 OF WASTE DAILY. THE PERMIT THAT HAD BEEN SUBMITTED TO US
21 INCLUDES A PERMITTED CAPACITY OF 200 TONS PER DAY, WHICH
22 HAS BEEN DETERMINED TO BE ABOUT THE DESIGN CAPACITY OF
23 THE FACILITY.

24 THE FACILITY IS OPERATED -- IS OPEN SEVEN
25 DAYS A WEEK FROM 7:30 A.M. TO 3:30 P.M. THE LOCAL

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1 ENFORCEMENT AGENCY, IN REVIEWING PERMIT, AS A PART OF THE
2 FIVE-YEAR REVIEW PROCESS, DETERMINED THAT NO SIGNIFICANT
3 CHANGES IN DESIGN OR OPERATION HAVE OCCURRED AND HAVE
4 SUBMITTED THE PERMIT AND AN UPDATED REPORT OF STATION
5 INFORMATION TO THE BOARD FOR THEIR CONSIDERATION AND
6 CONCURRENCE.

7 STAFF HAVE REVIEWED THE MATERIAL AND FIND
8 EVERYTHING TO BE IN ORDER. THE LEA, IN SUBMITTING THE
9 MATERIALS, MADE THE TWO NECESSARY FINDINGS RELATIVE TO
10 CONSISTENCY OF THE COUNTY SOLID WASTE PLAN AND
11 CONSISTENCY WITH BOARD STANDARDS. STAFF AGREES WITH THE
12 LEA DETERMINATION AND RECOMMENDS THAT THE BOARD ADOPT
13 PERMIT DECISION NO. 88-75.

14 CHAIRMAN GALLAGHER: THANK YOU, MR. DIER. ANY
15 QUESTIONS? MS. BREMBERG.

16 BOARD MEMBER BREMBERG: DON, ON THE PAGE 350, I
17 DON'T UNDERSTAND RINSED PESTICIDE CONTAINERS. ARE THESE
18 HOUSEHOLD, COMMERCIAL, AGRICULTURAL, WHAT TYPE?

19 MR. DIER: IT'S MY UNDERSTANDING THEY'RE
20 AGRICULTURAL.

21 BOARD MEMBER BREMBERG: THEY'RE NOT RECYCLABLE
22 CONTAINERS?

23 MR. DIER: TYPICALLY NOT? AND THE REQUIREMENTS
24 DO HAVE THE TRIPLE RINSED IN ORDER TO BE HANDLED AND
25 DISPOSED. TO MY KNOWLEDGE, THEY'RE NOT RECYCLED.

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1 BOARD MEMBER BREMBERG: KIND OF A CURIOUS THING
2 TO LIST AS A SPECIAL WASTE AND I JUST WONDERED WHY.

3 CHAIRMAN GALLAGHER: ANY FURTHER QUESTIONS OF
4 MR. DIER?

5 BOARD MEMBER BEAUTROW: MOVE PERMIT 88-75.

6 CHAIRMAN GALLAGHER: MR. BEAUTROW MOVES 88-75.

7 BOARD MEMBER BROWN: SECOND.

8 CHAIRMAN GALLAGHER: MR. BROWN SECONDS. THE
9 MOTION TO MOVE 88-75 HAS BEEN SECONDED. ALL THOSE IN
10 FAVOR? THOSE OPPOSED? CARRIED AND SO ORDERED.

11 MOVE NOW TO ITEM 19 ON THE AGENDA.

12 MR. OLDALL: YES, MR. CHAIRMAN, THIS PARTICULAR
13 ITEMS IS THE SELECTION OF CANDIDATES FOR RECYCLING
14 AWARDS. THE BOARD WILL REMEMBER THAT EARLIER ON THIS
15 YEAR STAFF BROUGHT A CONCEPT FOR THIS PARTICULAR PROGRAM
16 TO THE BOARD AND IT WAS APPROVED. AND OVER THE LAST FEW
17 MONTHS WE'VE BEEN GETTING THE APPLICATIONS IN. STAFF
18 HAVE BEEN REVIEWING THEM. WE'RE NOW IN A POSITION TO
19 MAKE OUR RECOMMENDATIONS TO THE BOARD. CHERYL MCNABB
20 WILL BE CONTINUING THE PRESENTATION.

21 MS. MCNABB: GOOD MORNING. MR. CHAIRMAN AND
22 MEMBERS OF THE BOARD, THIS ITEM ADDRESSES CONSIDERATION
23 BY THE BOARD OF CANDIDATES FOR RECYCLING AWARDS. AS YOU
24 MAY RECALL, IN APRIL OF THIS YEAR THE BOARD APPROVED
25 IMPLEMENTATION OF A RECYCLING AWARDS PROGRAM.

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1 THE PURPOSE OF THIS PROGRAM IS TO RAISE
2 VISIBILITY OF RECYCLING IN CALIFORNIA AND BRING
3 RECOGNITION TO SUCCESSFUL RECYCLING PROGRAMS AND
4 FACILITIES. STAFF WAS DIRECTED TO DEVELOP A PLAN FOR
5 CARRYING OUT THIS PROGRAM. THIS PLAN WAS PRESENTED AND
6 APPROVED BY THE BOARD DURING THE JULY MEETING.

7 THE BOARD APPROVED THE ESTABLISHMENT OF
8 FIVE CATEGORIES FOR RECYCLING AWARDS. THEY WERE THE BEST
9 CURBSIDE PROGRAM, THE BEST MULTI-MATERIAL RECYCLING
10 CENTER, THE BEST LARGE VOLUME RECYCLING CENTER LOCATED AT
11 A TRANSFER STATION OR LANDFILL, THE BEST INTEGRATED
12 COMMUNITY RECYCLING PROGRAM, AND AWARD FOR AN INNOVATIVE
13 RECYCLER.

14 A TOTAL OF 39 PROGRAMS OR FACILITIES
15 APPLIED FOR AWARDS. THESE ARE LISTED ON PAGE 366 OF YOUR
16 BOARD PACKET. SOME FACILITIES ARE NOMINATED IN SEVERAL
17 AWARD CATEGORIES. STAFF IS EXTREMELY PLEASED WITH THE
18 RESPONSE THAT THIS PROGRAM HAS RECEIVED, BUT EVEN MORE
19 EXCITING IS THE INNOVATIVE, INTERESTING STRATEGIES MANY
20 OF THE PROGRAMS AND FACILITIES HAVE PURSUED.

21 HOWEVER, AFTER REVIEW OF THE APPLICATIONS,
22 IT BECAME APPARENT THAT PICKING ONE WINNER PER CATEGORY
23 WAS GOING TO BE VERY DIFFICULT. AND, IN FACT, SOME
24 FACILITIES JUST DIDN'T FIT VERY WELL INTO ANY OF THE
25 CATEGORIES.

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1 FOR THIS REASON STAFF RECOMMENDS THAT THE
2 CURBSIDE CATEGORY BE BROKEN DOWN INTO TWO SUBCATEGORIES
3 AND THAT ONE SPECIAL RECOGNITION AWARD BE ADDED. THIS
4 ALLOWS SMALLER PROGRAMS AND PROGRAMS THAT JUST DIDN'T
5 QUITE FIT INTO ANY CATEGORY TO BE RECOGNIZED AND GIVEN AN
6 AWARD.

7 STAFF JUDGED CANDIDATES SOLEY ON THE
8 INFORMATION SUBMITTED IN THEIR APPLICATIONS. AS APPROVED
9 BY THE BOARD, IN ESTABLISHING THESE AWARDS, APPLICANTS
10 WERE JUDGED IN TERMS OF THEIR CONTRIBUTION TO THE
11 MANAGEMENT OF SOLID WASTE IN THEIR COMMUNITIES WITH
12 RESPECT LENGTH OF SERVICE, SERVICE COVERAGE, THE NUMBER
13 OF MATERIALS RECYCLED, THE SERVICES PROVIDED, THE
14 PERCENTAGE OF WASTE STREAM DIVERTED, AND ASPECTS OF
15 SPECIAL MERIT TO THE COMMUNITY.

16 FOLLOWING SELECTION OF A RECIPIENT, IT WAS
17 RECOMMENDED THAT BOARD MEMBERS WILL TRAVEL TO EACH
18 WINNING COMMUNITY TO PRESENT AN AWARD TO A REPRESENTATIVE
19 OF THE PROGRAM. DEPENDING ON THE CIRCUMSTANCES, THIS
20 COULD BE A CITY COUNCIL MEETING, A BOARD OF SUPERVISORS
21 MEETING, OR ANY SIMILAR PUBLIC MEETING.

22 TO PROVIDE FORMAL BOARD RECOGNITION OF ALL
23 NOMINEES, CERTIFICATES OF NOMINATION WILL BE PREPARED FOR
24 ALL APPLICANTS. THE AWARD WINNERS AND NOMINEES WILL BE
25 PUBLICIZED THROUGH PRESS RELEASES. ITEMS SUBMITTED TO

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1 TRADE JOURNALS, AND OTHER PUBLICATIONS WHICH REACH SOLID
2 WASTE INDUSTRY REPRESENTATIVES, THOSE INVOLVED IN
3 RECYCLING OPERATIONS, AND LOCAL GOVERNMENT OFFICIALS AND
4 COMMUNITY GROUPS.

5 STAFF RECOMMENDS THAT THE FACILITIES OR
6 PROGRAMS LISTED ON PAGES 359 THROUGH 360 OF YOUR BOARD
7 PACKET SHOULD BE SELECTED FOR THE AWARD INDICATED. A
8 SHORT DESCRIPTION OF EACH APPLICANT PROGRAM IS FOUND IN
9 ATTACHMENT 4, WHICH BEGINS ON PAGE 367 OF YOUR BOARD
10 PACKET.

11 FOR THE CATEGORY OF CURBSIDE RECYCLING
12 PROGRAM ON A LARGE-SCALE, STAFF IS RECOMMENDING THE SAN
13 JOSE CURBSIDE RECYCLING PROGRAM, WHICH SERVICES 180,000
14 UNITS WITH WEEKLY PICKUP. THEY ALSO HAVE AN OUTREACH
15 PROGRAM FOR NONENGLISH SPEAKING COMMUNITIES. THEY FOUND
16 THAT THE NONENGLISH SPEAKING COMMUNITIES WERE
17 PARTICIPATING AT A MUCH LOWER RATE, SO THEY TRANSLATED
18 THEIR PROGRAM -- INFORMATION INTO VIETNAMESE AND SPANISH
19 AND THEY OBTAINED BILINGUAL VOLUNTEERS TO GO INTO THOSE
20 COMMUNITIES AND EXPLAIN THE PROGRAM TO THEM.

21 THEY ALSO HAVE AN EDUCATION PROGRAM WHICH
22 IS DESIGNED FOR BOTH THE YOUNG AND THE OLD. THE SCHOOL
23 CURRICULUM, AS WELL AS BROCHURES AND PAMPHLETS AND TOURS
24 OF THE FACILITY AND THINGS LIKE THAT. THE CITY ALSO
25 PUBLISHES PROGRESS REPORTS IN THE WASTE MANAGEMENT INC.'S

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1 QUARTERLY NEWSLETTER WHICH IS SENT TO ALL RESIDENTS.

2 THEY ALSO PUT OUT A CALL FOR VOLUNTEERS IN
3 WASTE MANAGEMENT INC.'S NEWSLETTER, AND THEY WERE REALLY
4 PLEASED TO GET 800 RESPONSES. AND THESE FOLKS, THIS IS A
5 VERY ENTHUSIASTIC CORPS OF VOLUNTEERS GO DOOR TO DOOR,
6 THEY PUT REMINDERS ON DOORS, AND THEY FOUND THAT
7 NEIGHBORHOODS WITH ACTIVE VOLUNTEERS HAVE A PARTICIPATION
8 RATE OF 5 TO 15 PERCENT HIGHER THAN NEIGHBORHOODS
9 WITHOUT.

10 ON THE SMALL SCALE CURBSIDE RECYCLING
11 PROGRAM, STAFF IS RECOMMENDING THE VACAVILLE RECYCLING
12 CENTER, WHICH SERVICES 1,000 UNITS OF A RETIREMENT TOWN
13 CALLED LEISURE TOWN. LEISURE TOWN IS LOCATED RIGHT
14 OUTSIDE THE CITY BOUNDARIES, AND IT'S MOSTLY MADE UP OF
15 SENIOR CITIZENS. AND THEY FOUND THAT THE SENIOR CITIZENS
16 JUST COULDN'T MAKE IT TO THE RECYCLING CENTER, SO THEY
17 PROVIDED THEM WITH A CURBSIDE PROGRAM.

18 IT'S A NONPROFIT ORGANIZATION RUN BY TROOP
19 488 OF THE BOYS SCOUTS OF AMERICA. WITH HELP FROM THE
20 LEISURE TOWN HOMEOWNERS ASSOCIATION AND MEN'S CLUB, WHAT
21 THEY DO IS THE SCOUTS -- THE PARENTS OF THE SCOUTS AND
22 VOLUNTEERS FROM THE MEN'S CLUB DRIVE AROUND THE
23 NEIGHBORHOOD, AND THE SCOUTS JUMP OFF THE CARS AND TRUCKS
24 AND LOAD RECYCLABLES INTO THE CARS.

25 THE MULTI-MATERIAL RECYCLING CENTER AWARD.

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1 WE ARE RECOMMENDING THE CITY OF PALO ALTO, WHICH RUNS A
2 DROPOFF CENTER WHICH ACCEPTS A VARIETY OF MATERIALS.
3 THEY ALSO HAVE A HIGH GRADE OFFICE PAPER PROGRAM
4 AVAILABLE TO PALO ALTO BUSINESS WITH STAFFS UP TO 200.
5 THEY HAVE A FREE CONSULTING SERVICE TO BUSINESSES TO
6 ENCOURAGE RECYCLING, EITHER WITH THEMSELVES OR DIRECTLY
7 WITH BROKERS.

8 THEY TARGETED THE TOP 30 COMMERCIAL
9 INDUSTRIAL GENERATORS AND PERFORMED WASTE AUDITS. AND OF
10 30, 24 OF THESE BUSINESSES HAVE IMPLEMENTED SOME TYPE OF
11 RECYCLING PROGRAM. THEY HAVE A CURBSIDE PROGRAM AS WELL
12 AS A COMPOSTING PROGRAM.

13 FOR THE LARGE VOLUME RECYCLING CENTER
14 LOCATED AT A TRANSFER STATION OR LANDFILL, STAFF IS
15 RECOMMENDING HEAPS PEAK TRANSFER STATION, WHICH IS
16 LOCATED IN SAN BERNARDINO COUNTY. THEY OPERATE A
17 DROP-OFF PROGRAM AT THEIR TRANSFER STATION, AND THEY ALSO
18 HAVE A REAL INTERESTING THING WHERE THEY RECYCLE
19 NEWSPAPER THROUGH WHAT THEY CALL THE YELLOW PIPELINE,
20 WHICH IS A SCHOOL BUS.

21 HEAPS PEAK TRANSFER STATION WILL AT THE SIX
22 AREA SCHOOLS PROVIDES A CLOSED BIN; AND AS THE CHILDREN
23 EXIST THE YELLOW SCHOOL BUS, THEY PUT THE NEWSPAPER IN
24 THE BIN. WHEN THE BIN IS FULL, HEAPS PEAK WILL PAY THE
25 SCHOOL \$500, HAUL THE BIN AWAY, AND REPLACE IT WITH AN

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1 EMPTY ONE. THE BIN THEN GOES TO A LOCAL MILL WHERE
2 THE -- HEAPS PEAK ACCEPTS PAPER, ROLLS OF PAPER, IN
3 RETURN FOR A BIN OF NEWSPAPER.

4 HEAPS PEAK THEN TRANSFERS THAT PAPER TO A
5 CONVERTER, WHO CUTS IT TO SIZE, AND THEN THAT'S SHIPPED
6 TO A PRINTER WHERE IT GETS A RECYCLED PAPER LOGO IN BIG
7 BLUE LINES FOR THE ELEMENTARY SCHOOL CHILDREN. IT'S
8 BOXED, CUT, AND THE SCHOOL DELIVERY TRUCKS THEN TRANSPORT
9 ON THE REGULAR ROUTES TO THE SCHOOLS FREE OF CHARGE.

10 ALL OF THE MONEY THAT HEAPS PEAKS GENERATES
11 THROUGH THEIR RECYCLING PROGRAMS ARE DONATED TO THE PARKS
12 DISTRICT FOR PARK RENOVATIONS TO BUILD BASEBALL FIELDS,
13 THINGS LIKE THAT.

14 IN THE CATEGORY OF AWARD FOR BEST
15 INTEGRATED COMMUNITY RECYCLING AWARDS, STAFF IS
16 RECOMMENDING THE ARCATA COMMUNITY RECYCLING CENTER, WHICH
17 IS A NONPROFIT ORGANIZATION, WHICH SERVICES THE
18 COMMUNITIES OF NORTHERN HUMBOLDT COUNTY. THEY OPERATE A
19 BUY-BACK CENTER AS WELL AS A DROPOFF AREA. THEY HAVE
20 CARDBOARD AND OFFICE PAPER COLLECTION FOR 250 SCHOOLS,
21 CHURCHES, HOSPITALS, THINGS LIKE THAT.

22 THEY ALSO HAVE A REUSABLE DEPOT WHERE
23 RUMMAGE HOUSEHOLD ITEMS ARE BROUGHT, FIXED UP, AND THEN
24 RESOLD AT A LOW COST. THEY ALSO HAVE A COVERED
25 DO-IT-YOURSELF MOTOR OIL CHANGE STATION WHERE YOU CAN

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1 DRIVE YOUR CAR IN, YOU CAN CHANGE YOUR OIL, AND PUT YOUR
2 OIL RIGHT INTO THE TANK. THEY HAVE A RECYCLING
3 NEIGHBORHOOD NETWORK, WHICH INCLUDES DROPOFF BINS AND
4 BLOCK LEADERS, AS WELL AS AN EDUCATION PROGRAM WHICH
5 CONSISTS OF SPEAKERS AND EDUCATIONAL PROJECTS FOR
6 SCHOOLS.

7 IN THE CATEGORY OF INNOVATIVE RECYCLING
8 APPROACHES, STAFF IS RECOMMENDING THE CALTRANS MATERIAL
9 RECYCLING PROGRAM. CALTRANS IS REALLY AN EXCELLENT OF
10 EXAMPLE OF HOW A STATE AGENCY CAN GET INVOLVED IN
11 RECYCLING AND MAKE A BIG, BIG CONTRIBUTION AS FAR AS
12 IMPACT ON THE SOLID WASTE MANAGEMENT.

13 THEY ACTUALLY GO ONE STEP BETTER THAN
14 RECYCLING; THEY REUSE. THEY'LL TAKE OLD GUARD RAILS,
15 TRAFFIC SIGNAL BOXES AND REUSE THEM FOR OTHER THINGS LIKE
16 RETAINING WALLS, OR THE OLD TRAFFIC SIGNAL LIGHTS ARE
17 USED TO HOUSE BATTERY PACKS FOR SOLAR POWERED LIGHTING.

18 IN THE CATEGORY OF SPECIAL RECOGNITION,
19 THESE TWO FACILITIES JUST DIDN'T FIT REAL WELL INTO ANY
20 OF OUR CATEGORIES. NEVERTHELESS, THEY PROVIDE AN
21 ESSENTIAL COMMUNITY SERVICE. THE FIRST ONE IS SCHNITZER
22 STEEL PRODUCTS, WHO RECYCLE OLD ABANDONED JUNK CARS.
23 THEY'VE RECYCLED OVER THREE MILLION CARS IN THEIR 20
24 YEARS OF OPERATION. CURRENTLY, THEY PURCHASE AND SHRED
25 ABOUT A HUNDRED THIRTY-NINE THOUSAND UNWANTED VEHICLES

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1 ANNUALLY.

2 THIS MATERIAL YIELDS ABOUT A HUNDRED
3 THOUSAND TONS OF REUSABLE MATERIAL. DISPOSAL OF
4 ABANDONED CARS CAN BE A REAL COMMUNITY PROBLEM; AND
5 WITHOUT A FINANCIAL INCENTIVE TO GET THEM OFF THE
6 STREETS, THEY'LL JUST STAY THERE. AND BESIDES, THE CARS
7 DON'T END UP IN THE LANDFILL.

8 THE SECOND IS GIBSON OIL & REFINING
9 COMPANY, WHICH IS LOCATED IN BAKERSFIELD. THEY RECYCLE
10 USED OIL AND OIL/WATER MIXTURES AND PROCESS IT FOR FUEL
11 OIL. FROM JANUARY OF 1988 TO JULY OF 1988, THEY RECYCLED
12 197,724 BARRELS OF OILY WASTES. USED OIL RECYCLING IN
13 CALIFORNIA HAS BECOME INCREASINGLY DIFFICULT, AND GIBSON
14 OIL STAFF SAW AS PROVIDING AN ESSENTIAL COMMUNITY
15 SERVICE.

16 BOARD MEMBER BREMBERG: MR. CHAIRMAN, I THINK
17 THE ONE THING THAT YOU SHOULD HAVE ENUNCIATED VERY
18 CLEARLY AND DIDN'T, AND I CHECKED EACH ONE, YOU DID NOT
19 MENTION IS THE PERCENTAGE OF WASTE REDUCTION WITHIN THE
20 COMMUNITIES. AND SAN JOSE, WHICH YOU ARE GIVING ONE OF
21 TOP PRIZES, ONLY -- AND I SAY ONLY. IT'S A MATTER OF
22 DISAGREE -- ACCORDING TO THIS REDUCES THE WASTE ABOUT 8
23 PERCENT, THE WASTE STREAM. AND THEY ARE RECOGNIZED
24 THROUGHOUT THE STATE AS BEING THE TOP DOG IN RECYCLING.
25 AND YET ARCATA IS DOING 25 PERCENT, AND IT IS PERHAPS

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1 MORE DIFFICULT FOR ARCATA BECAUSE IT IS A NONPROFIT GROUP
2 AND IT IS SPREAD WAY OUT.

3 AND VACAVILLE, WELL, YOU DON'T GIVE THE
4 PERCENTAGE OF REDUCTION, BUT THEY HAVE A 70-PERCENT
5 PARTICIPATION RATE. AND IN PALO ALTO THEY HAVE 14
6 PERCENT. SO THEY ARE REDUCING THE WASTE STREAM BY A
7 LARGER PERCENTAGE THAN SAN JOSE. AND HEAPS IS ABSOLUTELY
8 REMARKABLE IN THAT THEY'RE GETTING 37-PERCENT WASTE
9 REDUCTION, AND THE OTHER ONES ARE, AS YOU SAY, VERY
10 SPECIAL.

11 BUT I WOULD LIKE TO SUGGEST IN ANY PRESS
12 RELEASE OR IN ANY ENUNCIATION OF THIS DURING THE AWARD
13 CEREMONY THAT THAT IS PROBABLY AS IMPORTANT AS THE
14 METHODOLOGY IS THE ACTUAL PROVABLE WASTE REDUCTION INTO
15 THE LANDFILLS. I THINK THAT THAT'S WHAT WE'RE AIMING
16 FOR, AND I BELIEVE THAT'S WHAT THE LEGISLATION AIMED FOR
17 BY REQUIRING A 20-PERCENT GOAL IN WASTE REDUCTION THROUGH
18 ALL THE COSWMPs. I HOPE YOU WOULD NOT LEAVE THAT OUT.

19 MS. MCNABB: I SHOULD HAVE MENTIONED THAT. WE
20 DID CONSIDER THE PERCENT REDUCTION OR THE PERCENT
21 DIVERSION FROM LANDFILLS.

22 BOARD MEMBER BREMBERG: WHY DIDN'T ARCATA WIN?
23 I'D BE CURIOUS. I WASN'T IN ON THE THING.

24 MS. MCNABB: THEY DID WIN.

25 MR. EOWAN: THEY DID WIN. THEY WERE JUST IN A

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1 DIFFERENT CATEGORY.

2 BOARD MEMBER BREMBERG: THE DID WIN, BUT THEY
3 DIDN'T MAKE THE TOP AWARD. IT SEEMED TO ME --

4 MR. EOWAN: NO. THESE AREN'T RANKED BY
5 HIERARCHY, MS. BREMBERG. WE COULD HAVE EASILY PUT AWARD
6 FOR BEST INTEGRATED COMMUNITY RECYCLING SYSTEMS AS THE
7 NO. 1 ON THIS LIST. THAT DOESN'T MEAN -- IT'S NOT A
8 HIERARCHY.

9 BOARD MEMBER BREMBERG: I THOUGHT IT WAS
10 ACCORDING TO THE WAY THEY WERE PRESENTED.

11 BOARD MEMBER ARAKALIAN: OH, NO. OTHERWISE, THE
12 BOY SCOUTS WOULD HAVE BEEN NO. 1, NOT NO. 2.

13 CHAIRMAN GALLAGHER: ANY OTHER QUESTIONS?

14 BOARD MEMBER BREMBERG: MR. ARAKALIAN ASKED ME
15 WHO WAS TAKING THE LITTLE LADIES ACROSS THE STREET WHILE
16 THE BOY SCOUTS WERE RECYCLING, AND I SAID THE GIRL
17 SCOUTS.

18 BOARD MEMBER BEAUTROW: I THINK THE HEAPS PEAK,
19 I BELIEVE THERE'S A STRONG FINANCIAL INCENTIVE. THAT'S A
20 LONG HAUL DOWN TO SAN MATEO. AND I GUESS AS THE STATE
21 GETS INTO MORE TRANSFER STATIONS, WHICH I'M POSITIVE
22 WE'RE GOING TO GET INTO, THERE'S GOING TO BE MORE
23 INCENTIVE TO TAKE EVERYTHING OUT OF THERE AND KEEP IT OFF
24 THE HIGHWAY. THAT IS REMARKABLE, ESPECIALLY THE USE OF
25 SCHOOL BUSES AND THAT CIRCLE AND DELIVERING BACK

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1 SOMETHING THAT'S USABLE. AND I HOPE WE CAN REALLY
2 PUBLICIZE THIS STATEWIDE. THESE ARE REALLY GREAT
3 PROGRAMS.

4 CHAIRMAN GALLAGHER: THANK YOU, MR. BEAUTROW.
5 THE GREATEST GRATIFICATION IS THAT WE ARE NOW MOVING
6 AHEAD IN THE RECOGNITION OF RECYCLING. AND EVEN THOUGH
7 WE HAVE ALWAYS BEEN DOING IT, WE'RE NOW TALKING ABOUT IT,
8 WHICH, MAYBE, WILL HELP EVERYONE. THANK YOU.

9 WE'RE ASKED TO APPROVE STAFF'S
10 RECOMMENDATION. MAY I HAVE A MOTION, PLEASE?

11 BOARD MEMBER BREMBERG: I SO MOVE.

12 BOARD MEMBER VARNER: SECOND.

13 CHAIRMAN GALLAGHER: MS. BREMBERG MOVES THAT WE
14 ACCEPT THE STAFF RECOMMENDATION FOR THE FINALISTS, AND
15 MR. VARNER HAS PROVIDED A SECOND. ALL THOSE IN FAVOR?
16 OPPOSED? CARRIED AND SO ORDERED. AND THANK YOU VERY
17 MUCH.

18 MOVE NOW TO ITEM NO. 20.

19 MR. OLDALL: YES, MR. CHAIRMAN. TWO QUICK
20 POINTS TO MAKE. WE'D LIKE TO JUST REMIND THE BOARD
21 MEMBERS ABOUT THAT LAST ITEM, THAT WE WILL BE SOLICITING
22 PERHAPS SOME BOARD MEMBERS OVER THE NEXT FEW WEEKS TO
23 MAKE THESE AWARDS WHEN WE DESIGN THE PUBLICITY AROUND
24 THEM.

25 WITH RESPECT TO THIS PARTICULAR ITEM, AT

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1 THE REQUEST OF AGENCY, WHO ARE FURTHER ANALYZING THE
2 REPORT, WE'VE BEEN ASKED TO HOLD THAT OVER TO THE
3 DECEMBER MEETING.

4 CHAIRMAN GALLAGHER: THE DRAFT REPORT ON
5 RECYCLING --

6 MR. OLDALL: ON THE SECONDARY MATERIALS MARKETS
7 REPORT.

8 BOARD MEMBER VARNER: MR. CHAIRMAN, WHEREABOUTS
9 ARE THESE AWARDS GOING TO BE GIVEN? ARE THEY ALL GOING
10 TO BE GIVEN IN ONE LOCATION OR IN THE LOCATION WHERE THE
11 COMPANIES ARE?

12 MR. OLDALL: LOCALLY. THAT'S THE IDEA, TO GET
13 SOME LOCAL PRESS FOR THEM.

14 BOARD MEMBER VARNER: I'D BE GLAD TO TAKE CARE
15 OF THOSE IN MY AREA, GIBSON OIL & REFINERY. I'D BE HAPPY
16 TO.

17 CHAIRMAN GALLAGHER: I THINK YOU WILL FIND BOARD
18 MEMBERS TO BE VERY COOPERATIVE. JUST MAKE A REQUEST.

19 MR. OLDALL: I THINK, WITH THAT, MR. CHAIRMAN
20 WE'RE READY FOR ITEM 21. --

21 CHAIRMAN GALLAGHER: YES.

22 MR. OLDALL: -- WHICH IS A PRESENTATION OF THE
23 RIEDEL/DANO SYSTEM FOR LARGE-SCALE MECHANIZED COMPOSTING.
24 AND I'D LIKE TO HAVE MITCH TALMADGE, OF THE BOARD'S
25 RESOURCE CONSERVATION DIVISION, INTRODUCE THE ITEM AND

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1 ALSO THE GENTLEMAN WHO WILL BE MAKING THE MAJOR PORTION
2 OF THE PRESENTATION.

3 MR. TALMADGE: MR. CHAIRMAN, MEMBERS OF THE
4 BOARD, TODAY WE HAVE WITH US MR. BILL GIBSON, THE
5 PRESIDENT OF RESOURCE SYSTEMS CORPORATION. THEY'RE THE
6 SOLE U.S. LICENSEE OF THE DANO SYSTEM, WHICH IS A
7 LARGE-SCALE MECHANIZED COMPOSTING SYSTEM FOR MUNICIPAL
8 SOLID WASTE.

9 DANO AG, A SWISS FIRM HAS DEVELOPED THIS
10 SYSTEM OVER THE PAST 40 YEARS, AND THERE ARE NOW OVER A
11 HUNDRED PLANTS IN OPERATION WORLDWIDE. THIS SYSTEM
12 INCORPORATES BOTH COMPOSTING AND RECYCLING AND COULD
13 DIVERT A SIGNIFICANT AMOUNT OF MUNICIPAL SOLID WASTE FROM
14 THE LANDFILL.

15 I'D LIKE TO NOW PRESENT MR. GIBSON,
16 PRESIDENT, AND HE HAS A SLIDE SHOW PRESENTATION AND WILL
17 TELL YOU A LITTLE BIT MORE ABOUT THE SYSTEM.

18 MR. GIBSON: THANK YOU, MITCH.

19 I'D LIKE TO TALK ABOUT HOW A COMMUNITY CAN
20 DRASTICALLY REDUCE THE AMOUNT OF WASTE GOING INTO ITS
21 LANDFILLS BY USING A PROCESS THAT IS ENVIRONMENTALLY
22 BENIGN; THAT IS, IT HAS NO ADVERSE IMPACT ON THE
23 ENVIRONMENT. IT IS A PROCESS WHICH MAXIMIZES RECYCLING.
24 IT'S A PROCESS WHICH CONVERTS WORTHLESS WASTE INTO A
25 USEFUL PRODUCT, AN ECONOMICAL PROCESS AND IT REQUIRES NO

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1 INVESTMENT OF PUBLIC FUNDS.

2 THE PROCESS, OF COURSE, IS COMPOSTING,
3 MODERN, LARGE-SCALE, MECHANIZED COMPOSTING. COMPOSTING
4 IS NOT WELL-KNOWN IN THIS COUNTRY, BUT THAT'S NOT BECAUSE
5 IT'S ANYTHING NEW. AS MITCH MENTIONED, PLANTS HAVE BEEN
6 BEING BUILT AND OPERATED SUCCESSFULLY FOR THE PAST 40
7 YEARS.

8 DURING THOSE 40 YEARS, THERE'S BEEN A
9 STEADY IMPROVEMENT, A REFINEMENT, OF THE PROCESS UNTIL
10 TODAY IT'S A SOPHISTICATED TECHNOLOGY, ONE THAT'S VERY
11 RELIABLE, VERY DEPENDABLE. THERE ARE HUNDREDS OF THESE
12 PLANTS IN OPERATION IN DIFFERENT PARTS OF THE WORLD,
13 MOSTLY IN EUROPE. AS MITCH MENTIONED, DANO AG, THE SWISS
14 FIRM, HAS WELL OVER A HUNDRED PLANTS IN OPERATION IN JUST
15 THAT ONE COMPANY.

16 COMPOSTING IS A NATURAL PROCESS. IT'S THE
17 PROCESS BY WHICH NATURE HAS CLEANED UP AND SANITIZED
18 WASTE FROM THE BEGINNING OF TIME. IT -- THERE'S SEVERAL
19 THINGS I WANTED TO SAY SIMULTANEOUSLY HERE.

20 IT NOT ONLY CLEANS UP AND SANITIZES THE
21 WASTE, BUT IT CONVERTS IT INTO A HUMUS, WHICH MINGLES
22 WITH AND ENRICHES THE SOIL. THE DIFFERENCE BETWEEN RICH
23 OR FERTILE SOIL, SOIL THAT IS NOT FERTILE IS THE AMOUNT
24 OF HUMUS IT CONTAINS. UNFORTUNATELY, IN MOST PLACES THE
25 SOIL DOES NOT HAVE ENOUGH HUMUS.

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1 THE COMPOSTING DEPENDS UPON THE ACTION OF
2 BUILDING TINY MICROORGANISMS. THESE MICROORGANISMS ARE
3 EVERYWHERE. THEY CAN GO ANYPLACE IN THE WORLD AND EAT AN
4 APPLE. WHEN YOU THROW THE CORE AWAY, IT WILL RAPIDLY
5 BEGIN TO TURN ORANGEISH BROWN BECAUSE THE MICROORGANISMS
6 ARE BEGINNING TO DIGEST THE REMAINS.

7 THIS ROOM IS FULL. THERE MUST BE MILLIONS
8 OF MICROORGANISMS IN THIS ROOM RIGHT NOW. WE'RE NOT
9 AWARE OF THEM BECAUSE THEY'RE MICROSCOPICALLY SMALL AND
10 HARMLESS. BUT IT'S THESE MICROORGANISMS THAT DO THE WORK
11 IN COMPOSTING.

12 SO WHEN YOU DESIGN A COMPOSTING PLANT, YOU
13 ATTEMPT TO CREATE AN ENVIRONMENT THAT THOSE
14 MICROORGANISMS WILL LIKE SO THAT THEY WILL MULTIPLY
15 RAPIDLY AND WORK HARD. BASICALLY, WHAT YOU DO IS YOU
16 PROVIDE FOOD, OXYGEN, AND WATER, THE BASIC NECESSITIES OF
17 LIFE.

18 WHEN YOU DO THAT, THE FOOD, OF COURSE, IS
19 THE ORGANIC PORTION OF THE WASTE. ADD WATER, PROVIDE
20 OXYGEN, AND THEY GO TO WORK AND IT'S AMAZING WHAT THEY
21 CAN DO. A MEDIUM-SIZED COMPOSTING PLANT WILL PROCESS
22 AROUND 600 TONS PER DAY OF SOLID WASTE. THE CYCLE TAKES
23 ABOUT SIX WEEKS, BUT EACH DAY IN A MEDIUM-SIZED PLANT,
24 PUT IN APPROXIMATELY 600 TONS OF WASTE.

25 I GUESS THAT COVERS THE INITIAL REMARKS I



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1 WANTED TO MAKE. LET ME SHOW YOU THESE SLIDES NOW. COULD
2 WE TURN OFF THE OTHER LIGHTS? IS THAT POSSIBLE?

3 AS MITCH MENTIONED, MY COMPANY IS RESOURCE
4 SYSTEMS CORPORATION. OUR SOLE REASON FOR BEING IS TO
5 DEVELOP AND PROMOTE THE DANO COMPOSTING SYSTEM IN THE
6 UNITED STATES. WE'RE ASSOCIATED WITH RIEDEL
7 ENVIRONMENTAL TECHNOLOGIES. RIEDEL ENVIRONMENTAL
8 TECHNOLOGIES IS ONE OF THE SEVERAL RIEDEL COMPANIES WITH
9 HEADQUARTERS IN PORTLAND. THEY HAPPEN TO SPECIALIZE IN
10 ENVIRONMENT RELATED WORK; FOR EXAMPLE, THEY OPERATE
11 LANDFILLS.

12 THEY HAVE THE FEDERAL CONTRACT FOR
13 EMERGENCY RESPONSE TO TOXIC WASTE SPILLS ANYWHERE WEST OF
14 THE MISSISSIPPI RIVER. THEY ARE ASSOCIATED WITH US IN
15 PROMOTING AND DEVELOPING THE DANO COMPOSTING SYSTEM.

16 ANOTHER MEMBER OF THE TEAM IS RIEDEL
17 INTERNATIONAL. RIEDEL INTERNATIONAL IS IN THE BUSINESS
18 OF CONSTRUCTING INDUSTRIAL FACILITIES AROUND THE WORLD.
19 THEY WILL MAKE THE -- THEY WILL BUILD THE MAJORITY OF THE
20 DANO PLANTS IN THE UNITED STATES.

21 HERE'S THE PROBLEM WE'RE DEALING WITH.
22 MODERN SOCIETY GENERATES HUGE AMOUNTS OF WASTE AND IT'S
23 GROWING ALL THE TIME. TRADITIONALLY, WE'VE THROWN IT IN
24 HOLES IN THE GROUNDS AND COVERED IT UP. THAT'S NO LONGER
25 FEASIBLE. SO WE'RE GOING TO HAVE TO USE BETTER METHODS



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1 OF DEALING WITH IT.

2 ONE OF THE THINGS WE CAN DO, OF COURSE, IS
3 TO RECYCLE THE USABLE PAPER, METALS, GLASS AND SO ON;
4 HOWEVER, A LARGE PORTION OF THE DOMESTIC WASTE IS
5 ORGANIC. AND IT NORMALLY HAS NO VALUE AND TRADITIONALLY
6 HAS BEEN LANDFILLED, COVERED OVER. IT DECOMPOSES,
7 CREATING BAD ODORS AND PROBLEMS OF THAT KIND.

8 BOARD MEMBER BREMBERG: WHERE ARE THESE TAKEN?

9 MR. GIBSON: I'M NOT SURE.

10 BOARD MEMBER BREMBERG: NEED A LITTLE COVER.

11 MR. GIBSON: WE'VE COLLECTED THESE SLIDES FROM
12 ALL OVER THE WORLD. THOSE, I'M SURE, ARE SOME AMERICAN
13 LANDFILL. I DON'T KNOW WHERE IT IS.

14 OKAY. THE FIRST STEP IN THE DANO SEQUENCE
15 IS WHEN THE GARBAGE TRUCKS COME IN LOADED WITH GARBAGE,
16 GO OVER THE SCALES WHERE THEIR LOADED WEIGHT IS RECORDED.
17 THEN LATER, AFTER THEY HAVE DUMPED THEIR LOADS, THEY
18 RETURN AND THEIR EMPTY WEIGHT IS RECORDED. AND THAT
19 COMPUTER CALCULATES THE TIPPING FEE THAT'S DUE FOR THE
20 WASTE THAT WAS DEPOSITED.

21 THE TRUCKS DROP THE -- THEIR LOADS ONTO A
22 CONCRETE FLOOR INSIDE A BUILDING. THEN THE REFUSE IS
23 SCOOPED UP AND PUT ON A CONVEYOR, TAKEN UPSTAIRS. IN
24 THIS PLANT THE CONVEYOR IS ON THE RIGHT. IN THIS PLANT
25 IT'S IN THE MIDDLE. THE MATERIAL IS CARRIED UP AND



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1 DROPPED ONTO A SLOW MOVING BELT CALLED A PICKING LINE.
2 AND PEOPLE ALONG THE PICKING LINE REMOVE THE RECYCLABLE
3 PAPER, GLASS, METALS, AND SO ON. THEY DROP THEM DOWN
4 SHOOT TO THE FLOOR BELOW, AND THEY ALSO REMOVE HAZARDOUS
5 MATERIALS, INSECTICIDES OR BATTERIES OR OTHER THINGS WE
6 DON'T WANT GOING THROUGH THE SYSTEM. THOSE ALSO DROPPED
7 DOWN SHOOT.

8 HERE ARE SOME STALLS AT THE BOTTOM OF THOSE
9 SHOOT WHERE THE MATERIAL IS COLLECTED FOR LATER DELIVERY
10 TO RECYCLE SUCH MATERIALS.

11 AT SEVERAL PLACES ALONG THE SYSTEM THERE
12 ARE MAGNETIC SEPARATORS WHICH REMOVE METALS, FERROUS
13 METALS, WHICH, AGAIN, ARE DROPPED DOWN SHOOT INTO A BIN
14 FOR LATER SCOOPING UP AND CARRYING AWAY.

15 THIS IS THE FRONT END OR THE LOADING END OF
16 A TWO-DRUM DANO PLANT. THOSE RETANGULAR BOXES ARE THE
17 LOADING HOPPERS. A CONVEYOR OUT OF SIGHT ABOVE THE
18 PICTURE DROPS THE MATERIAL AFTER THE PICKING LINE INTO
19 THE HOPPERS, WHICH IN TURN INTRODUCE IT INTO THE DRUM.

20 THESE DRUMS ARE HUGE. THEY'RE ABOUT 12
21 FEET IN DIAMETER AND SOMETHING LIKE 80 FEET LONG. THEY
22 ROTATE AT ABOUT TWO TO THREE RPM, AND IT TAKES ABOUT SIX
23 TO EIGHT HOURS FOR THE MATERIAL TO MOVE FROM ONE END OF
24 THE DRUM TO THE OTHER.

25 AS I SAID, THIS IS A TWO-DRUM PLANT.

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1 SMALLER PLANTS OR LARGER PLANTS CAN HAVE THREE DRUMS OR
2 MORE. THERE ARE A LOT OF SMALLER PLANTS WITH A SINGLE
3 DRUM. THIS ONE HAPPENS TO BE IN DENMARK.

4 THIS IS THE OUTPUT END OF A TWO-DRUM PLANT
5 IN MANCHESTER, ENGLAND. MANCHESTER HAS FOUR DANO PLANTS.
6 IF YOU LOOK CAREFULLY, YOU WILL SEE THAT THE -- THIS END
7 CLOSEST TO THE CAMERA, THOSE TWO DRUMS, HAS A LARGER
8 DIAMETER THAN THE REST OF THE DRUMS, AND THAT'S BECAUSE
9 THERE'S A TROMMEL SCREEN INSIDE, AND THAT'S A SHROUD OR A
10 COVER SURROUNDING THE TROMMEL SCREEN.

11 INCIDENTALLY, THAT DOESN'T LOOK MUCH LIKE A
12 PLACE THAT PROCESSES HUNDREDS OF TONS OF GARBAGE EVERY
13 DAY, DOES IT? AND IT DOESN'T SMELL LIKE IT EITHER.

14 HERE WE'RE LOOKING AT RIGHT ANGLES OF A
15 SINGLE-DRUM PLANT, RIGHT ANGLES AT THE OUTPUT END. YOU
16 CAN SEE THE TROMMEL SCREEN. BY THE TIME THE MATERIAL
17 REACHES THIS END OF THE DRUM, THE ORGANIC MATERIAL HAS
18 BEEN PULVERIZED INTO A PULP. THAT PULP WILL DROP DOWN
19 THROUGH THE SCREEN INTO THE CONVEYOR ON THE LEFT.

20 THE OVER-SIZE AND MOSTLY INORGANIC MATERIAL
21 DROPS OFF THE END INTO THIS RIGHT-HAND CONVEYOR. YOU CAN
22 TELL WHICH IS WHICH. THE ONE ON THE LEFT IS THE ONE
23 CONTAINING THE PULP THAT'S GOING TO BE TAKEN OUTSIDE TO
24 BE COMPOSTED AND THE REJECTS ON THE RIGHT.

25 IF YOU WISH, THE REJECTS CAN BE FURTHER



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1 PROCESSED TO REMOVE PAPER, WOOD, AND OTHER COMBUSTIBLE
2 PRODUCTS WHICH CAN BE PULVERIZED AND USED AS A FUEL.

3 VARIOUS TYPES OF CONVEYORS ARE USED TO
4 SPREAD THE MATERIAL ON THE GROUND OUTSIDE. HERE'S A
5 DIFFERENT ONE. HERE'S ANOTHER KIND. THAT'S SNOW ON THE
6 GROUND REMINDS ME THAT THERE ARE DANO PLANTS IN OPERATION
7 EVERYWHERE FROM EGYPT TO ICELAND.

8 HERE'S A PLANT IN AUSTRIA. NOW, THAT USES
9 THE WIND ROW SYSTEM OF COMPOSTING, WHICH HAS BEEN THE
10 SYSTEM IN USE OVER THE YEARS. THE MATERIAL IS PLACED IN
11 WIND ROWS AND THE MICROORGANISMS GO TO WORK ON IT. THERE
12 ARE TRILLIONS OF THEM IN THOSE PILES. AS THEY DIGEST THE
13 MATERIAL -- THE ORGANIC MATERIAL, AN OXIDIZING PROCESS
14 TAKES PLACE. THE CARBON AND THE HYDROGEN IN THE ORGANIC
15 MATERIAL ARE CONVERTED INTO CO2 AND H2O AND PASS INTO THE
16 ATMOSPHERE.

17 OXIDIZING, OF COURSE, IS A PROCESS THAT
18 RAISES TEMPERATURES. AS A RESULT, THE TEMPERATURE INSIDE
19 THOSE ROWS WILL GO UP TO AROUND 175 DEGREES FAHRENHEIT,
20 WHICH IS HOT ENOUGH TO PASTEURIZE THE MATERIAL. THE
21 PATHOGENS ARE KILLED. WEED SEEDS, INSECT EGGS, AND
22 UNDESIRABLE CONTENTS ARE KILLED.

23 WITH THE WIND ROW SYSTEM, MACHINES ARE USED
24 TO PERIODICALLY TURN THE ROWS OVER SO THAT ALL THE
25 MICROORGANISMS GET THEIR FAIR SHARE OF THE OXYGEN THAT IS

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1 NEEDED.

2 IN THE NEWER SYSTEM, WHICH WE WILL BE USING
3 MOSTLY IN THIS COUNTRY, THE MATERIAL IS DEPOSITED ON
4 AERATION SLABS, CONCRETE FLOORS WITH SLOTS IN THEM UP
5 THROUGH WHICH AIR IS PUMPED. SO IN THIS CASE YOU HAVE
6 FLAT TOP PILE. THERE'S NO SEGREGATION INTO WIND ROWS.
7 THE MATERIAL BEING COMPOSTED STAYS THERE FOR ABOUT THREE
8 WEEKS.

9 AT THE END OF THAT TIME THE MICROORGANISMS
10 HAVE COMPLETED ABOUT 90 PERCENT OF THEIR WORK. THEN IT
11 IS TAKEN TO A STATIC PILE, THEREBY LEFT FOR ANOTHER THREE
12 WEEKS, DURING WHICH THE FINAL 10 PERCENT OF THE
13 COMPOSTING OCCURS. THAT IS FOLLOWED BY A FINE SCREENING
14 TO REMOVE THE BOTTLE CAPS AND OTHER SMALL ITEMS THAT HAVE
15 GONE THROUGH PREVIOUS SCREENINGS.

16 MANY PLANTS, SUCH AS THIS ONE IN DUISBURG,
17 WEST GERMANY, HAVE BAGGING FACILITIES WHERE THE MATERIAL
18 CAN BE PUT IN BAGS FOR SALE TO THE HOME GARDEN MARKET.

19 HERE IS THE CONTROL ROOM IN A PLANT, I
20 BELIEVE, IN ENGLAND. FROM THIS ROOM ALL OF THE
21 OPERATIONS IN THE PLANT CAN BE MONITORED, THE EQUIPMENT
22 CHECKED AND ADJUSTED AS NEEDED. AS I MENTIONED EARLIER,
23 THIS IS AN ENVIRONMENTALLY BENIGN PROCESS.

24 THE EMISSIONS, AS I MENTIONED, ARE CO2 AND
25 H2O. THE LOUDEST NOISES ARE THE OPERATION OF FRONT-END

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1 LOADERS. THE RAIN THAT FALLS ON THESE OUTSIDE PILES IS
2 COLLECTED UNDERNEATH THOSE PILES AND IS PIPED TO A SUMP
3 WHERE IT IS USED IN THE PROCESS. A LOT OF WATER IS USED
4 IN COMPOSTING. THERE ARE NO UNPLEASANT ODORS, WHICH
5 ALWAYS SURPRISES PEOPLE BECAUSE THEY FIGURE IF THERE'S
6 DECOMPOSING GARBAGE, IT MUST SMELL BAD. AND ACTUALLY AS
7 LONG AS YOU HAVE ENOUGH OXYGEN, YOU HAVE AEROBIC
8 DECOMPOSITION AND YOU DO NOT HAVE BAD SMELLS.

9 THE SMELLIEST PLACE IN A DANO PLANT IS THE
10 RECEIVING AREA WHERE THE GARBAGE IS DUMPED ON THE FLOOR.
11 THE SMELL THERE IS NOT TOO BAD AS LONG AS IT'S CLEANED UP
12 AND HOSED DOWN EVERY DAY. FURTHERMORE, WE DESIGN THESE
13 PLANTS SO THE AIR USED IN THE PROCESS IS SUCKED FROM THAT
14 AREA, RATHER STAYING THERE OR DRIFTING OUTSIDE.

15 AND, OF COURSE, THE MATERIAL BEING MOIST,
16 THERE'S NO DUST. THIS IS A PICTURE OF A PLANT IN WEST
17 GERMANY SHOWING A DANO ENGINEER STANDING ON AN AERATION
18 SLAB. BEHIND HIM YOU CAN SEE THE COMPOST BEING MATURED.
19 AND INTERESTING ARE THE FINE RESIDENCES BEYOND. IF THAT
20 PLANT WAS A NUISANCE, YOU COULD BE SURE THAT THE PEOPLE
21 LIVING THERE WOULD NOT TOLERATE IT.

22 OKAY. AS I MENTIONED, THE HUMUS OR
23 COMPOSTING MATERIAL INCREASES SOIL FERTILITY, AND IT DOES
24 IN A NUMBER OF WAYS. ONE OF THE MOST IMPORTANT IS THAT
25 IT IMPROVES WATER RETENTION. IT LOOSENS THE SOIL. IT

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1 IMPROVES THE IONIC BONDING CAPACITY, WHICH HAS TO DO WITH
 2 THE ABILITY OF ROOTS TO ABSORB NUTRIENTS. IT PROVIDE
 3 TRACE ELEMENTS. PLANTS NEED TRACE ELEMENTS JUST AS WE
 4 NEED SMALL AMOUNTS OF VITAMINS FOR HEALTH.

5 IT'S A GOOD INSULATOR, PARTICULARLY AS USED
 6 AS A MULCH. FOR EXAMPLE, IN HOT CLIMATES IT WILL PROTECT
 7 THE ROOTS FROM HEAT IN THE SUMMER AND ALSO REDUCE
 8 EVAPORATION. AND, FINALLY, IT CONTROLS EROSION. WHEN IT
 9 RAINS HEAVILY, COMPOST WILL NOT WASH AWAY AS READILY AS
 10 NORMAL SOIL.

11 HERE ARE SOME OF THE KINDS OF PLACES THAT
 12 IT'S USED FOR MULCHING AND AS A SOIL CONDITIONER,
 13 INCLUDING FARMS, NURSERIES, VINEYARDS, GOLF COURSES,
 14 GARDENS. THAT HAPPENS TO BE THE INTERNATIONAL ROSE TEST
 15 GARDEN IN PORTLAND, OREGON.

16 THIS PICTURE SHOWS A TRUCK IN WEST GERMANY
 17 THAT IS HYDROSEEDING. HYDROSEEDING IS A METHOD OF
 18 PLANTING GRASS SEED. IN THIS CASE THEY MIX COMPOST WITH
 19 WATER, SEED, AND LITTLE FERTILIZER AND THEN SPRAY IT ON
 20 THE ROADSIDES TO DEVELOP THE GRASS THEY WANT.

21 WHILE WE TALK MOSTLY ABOUT COMPOST USE FOR
 22 SOIL CONDITIONING AND MULCHING, IT DOES HAVE OTHER
 23 CHARACTERISTICS. FOR EXAMPLE, THERE'S ONE PLANT IN
 24 EUROPE THAT SELLS 60 PERCENT OF THEIR COMPOST OUTPUT FOR
 25 USE IN INDUSTRIAL ODOR FILTERS TO REMOVE ODORS FROM



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1 SLAUGHTERHOUSES, CHEMICAL PLANTS, OTHER PLACES.

2 IT'S A GOOD SOUND ABSORBING, HAS GOOD SOUND
3 ABSORBING CAPABILITIES, AND IS SOMETIMES USED -- BERMS
4 MADE OF COMPOST TO ABSORB THE SOUND THAT WANTS TO BE
5 CONTROLLED. AND, FINALLY, IT'S A GOOD LIQUID ABSORPTION.
6 IN FACT, IF IT'S DRY, IT WORKS, EVEN LOOKS QUITE A BIT
7 LIKE KITTY LITTER.

8 AS I MENTIONED, IT MAXIMIZES RECYCLING. IF
9 YOU HAVE A CITY WHERE THEY ARE GOING DOING A LOT SOURCE
10 SEPARATION, THEN THOSE THINGS THAT ARE MISSED GET CAUGHT
11 WHEN IT COMES TO THE COMPOSTING PLANT. THEY DON'T HAVE
12 AS MUCH PRE-RECYCLING. MORE OF IT IS DONE AT THE
13 COMPOSTING PLANT. IT'S DEPENDABLE, AS I MENTIONED. LOW
14 DOWN TIME, LOW MAINTENANCE COSTS. LOTS OF PLANTS HAVE A
15 RECORD OF ABOUT 99 PERCENT AVAILABILITY, MEANING THEY
16 WERE IN IN OPERATION 99 PERCENT OF THE SCHEDULED
17 OPERATING HOURS.

18 FLEXIBILITY. THIS IS ONE OF THE KEY
19 FACTORS IN THE DANO SYSTEM. PLANTS CAN BE BUILT IN
20 VARIOUS SIZES. THEY CAN BE BUILT, SAY, A WIND ROW CAN BE
21 BUILT; AND THEN WHEN CITY GROWS, A SECOND DRUM CAN BE
22 ADDED. IN LARGE CITIES, INSTEAD OF HAVING ALL OF YOUR
23 GARBAGE COMING INTO A CENTRAL POINT, YOU CAN HAVE SEVERAL
24 PLANTS AROUND THE CITY AND, THEREBY, CUT DOWN ON THE
25 TRAFFIC CONGESTION.

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1 THERE ARE VARIOUS OTHER THINGS THAT CAN BE
2 DONE. WHEREAS, THE SYSTEM WILL WORK SLOWLY ON SOLID
3 WASTE AND CAN ALSO BE USED TO CO-COMPOST SEWAGE SLUDGE.
4 IT CAN -- YOU CAN HAVE SHREDDING EQUIPMENT TO TAKE WOOD
5 AND BRANCHES AND BRUSH AND CONVERT THAT INTO A MULCH.

6 THE COMPOSTING AREA CAN BE EITHER AT THE
7 PLANT OR REMOVED FROM IT. MOST OFTEN IT'S AT THE PLANT
8 BECAUSE THAT'S THE MOST ECONOMICAL WAY TO DO IT. YOU CAN
9 GET INTO SOME LAND VALUE PROBLEMS, PROBLEMS WITH PEOPLE
10 NOT WANTING THE COMPOSTING DONE NEAR THEM, EVEN THOUGH IT
11 DOES NOT CREATE ANY PROBLEMS. SOMETIMES PEOPLE DON'T
12 WANT TO BELIEVE THAT. SO THE PLANT CAN BE AT THE MOST
13 CONVENIENT PLACE FOR RECEIVING THE GARBAGE, AND THE
14 COMPOSTING CAN TAKE PLACE AT SOME REMOTE SPOT.

15 IF YOU WISH, YOU CAN HAVE A CLEAN PAPER
16 PROCESSING FACILITY ADJACENT TO THE COMPOSTING PLANT. WE
17 HAVE PROPOSED THAT IN A FEW CASES IN CITIES THAT ARE
18 ALREADY COLLECTING CLEAN CARDBOARD AND PAPER. AND THEY
19 CAN BRING IT TO THE SAME PLANT AND HAVE IT SEGREGATED IN
20 BUNDLES AND SOLD ACCORDING TO GRADE, WITH THE REJECTS,
21 DIRTY PAPER, GOING OVER TO BE INCLUDED IN THE COMPOST.

22 A COMPOSTING PLANT DOES NOT HAVE TO BE
23 UNSIGHTLY. IN FACT, SOME OF THEM ARE QUITE GOOD LOOKING.
24 THERE'S ONE IN SAO PAULO, BRAZIL. HERE'S ONE OF THE
25 MANCHESTER PLANTS. THIS PLANT, NOTICE HAVING A GLASS



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1 SIDE, YOU CAN LOOK THROUGH THE WINDOWS AND SEE THE DRUM
2 INSIDE THERE SLOWLY TURNING.

3 HERE'S ANOTHER PLANT. NOTICE THE
4 DIFFERENCE IN THE ARCHITECTURE. THERE'S QUITE A VARIETY
5 WE'VE ALREADY SEEN OF ARCHITECTURAL STYLES. THE
6 COMPOSTING BINS ARE, OF COURSE, IN THE FOREGROUND.

7 HERE'S A PLANT IN SOUTH AMERICA. NOW, THIS
8 IS A SIX-DRUM PLANT. AND YOU WILL NOTICE THAT IT'S
9 LOCATED BETWEEN THE FREEWAY ON ONE SIDE AND A COMMERCIAL
10 AREA ON OTHER SIDE. COMPOSTING BINS BEING IN THE
11 BACKGROUND.

12 HERE'S ANOTHER PLANT. AGAIN, THE
13 COMPOSTING BEDS ARE IN THE FOREGROUND. THIS IS AN
14 ARTIST'S RENDITION OF A PLANT WE'RE BUILDING IN PORTLAND,
15 OREGON. THIS WILL BE A TWO-DRUM PLANT, AND THE
16 METROPOLITAN SERVICE DISTRICT WILL PROMISE TO PROVIDE
17 185,000 TONS PER YEAR OF MIXED SOLID WASTE. THAT PLANT,
18 GROUND HAS ALREADY BEEN BROKEN. WE EXPECT THE PLANT TO
19 START UP IN ABOUT A YEAR AND A HALF. THAT WOULD BE
20 MID-1990.

21 OF COURSE, THE BIGGEST OBJECTIVE OF THE
22 WHOLE EXERCISE IS TO REDUCE THE AMOUNT OF MATERIAL GOING
23 INTO THE LANDFILLS. AND COMPOSTING DOES THIS VERY WELL
24 BECAUSE IT RECYCLES MATERIAL THAT CAN BE RECYCLED AND IT
25 CONVERTS THE ORGANIC MATERIAL INTO COMPOST. IN FACT.



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1 COMPOSTING IS REALLY RECYCLING OF THE ORGANIC ELEMENTS IN
2 WASTE.

3 IT IS -- TIPPING FEES ARE LOWER THAN OTHER
4 PROCESSES THAT WILL RECEIVE THE SAME OR ACHIEVE THE SAME
5 RESULTS. AND RIEDEL WILL FINANCE, BUILD, AND OPERATE THE
6 PLANT SO THE PUBLIC FUNDS ARE NOT REQUIRED.

7 THIS EARTH IS GETTING MORE AND MORE PEOPLE WHO
8 ARE PRODUCING MORE AND MORE WASTE, AND WE BELIEVE THAT IT
9 IS IMPERATIVE THAT WE USE MODERN TECHNOLOGY TO MINIMIZE
10 THE EFFECT OF THAT WASTE ON OUR LIVES IN THE FUTURE.

11 BOARD MEMBER BEAUTROW: MAY I ASK A COUPLE OF
12 QUESTIONS?

13 BOARD MEMBER ARAKALIAN: I'D LIKE TO ASK YOU A
14 QUESTION.

15 CHAIRMAN GALLAGHER: TRYING TO LOCATE WHERE MY
16 BOARD IS. SAM, YOU HAD YOUR HAND UP FIRST.

17 BOARD MEMBER ARAKALIAN: I'D LIKE TO ASK YOU A
18 QUESTION. THIS IMPRESSES ME. BY THE SAME TOKEN, IN THE
19 LAST SIX, EIGHT YEARS, I HAVE BEEN IMPRESSED ALSO. YOU
20 ARE KNOWLEDGEABLE TO ANSWER A QUESTION FOR ME. WE'VE
21 SEEN MANY COMPOSTING PROGRAMS, MAYBE NOT QUITE AS
22 SOPHISTICATED, BUT THE END RESULT BEING THE SAME
23 MATERIAL, YOU KNOW.

24 AND VERY, VERY -- IN MOST CASES THAT WE'VE
25 SEEN THEY HAVE NOT BEEN SUCCESSFUL ECONOMICALLY. THEY'VE



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1 HAD TO SHUT DOWN. REASON HAS ALWAYS BEEN GIVEN THAT NO
2 MARKET FOR THE COMPOST. AFTER THEY'VE GONE THROUGH THIS
3 PROCESS OF COMPOSTING IT, THEN THEY HAVEN'T HAD ANY
4 MARKET FOR IT. AND ALL THEY'VE DONE IS SPEND A LOT OF
5 MONEY AND PREPARED IT TO TAKE IT TO THE LANDFILL IN THE
6 END RUN.

7 WHY DO YOU FEEL THIS IS TRUE AND WHAT DO
8 YOU THINK CAN BE DONE TO CREATE THIS MARKET? WHY HASN'T
9 THE MARKET BEEN SUCCESSFUL? I MEAN -- THE MARKETING --
10 NOT SO MUCH TECHNOLOGY OF MAKING IT. I'M SURE IF YOU
11 HAVE A VERY SOPHISTICATED METHOD, IT PROBABLY WOULD
12 BETTER THAN ANY I'VE SEEN, AND YET EVEN I'VE EVEN LOOKED
13 AT SOME WHEN WE WENT OUT ON FIELD TRIPS AND SAW IT. I
14 REMEMBER THE PILES AND GETTING HOT AND ALL THIS BUSINESS.
15 AND NOT QUITE, AS I SAY, AS NICE AS YOURS; BUT WHETHER
16 THEY MADE WITH YOUR METHOD OR ANOTHER, WHY HAVEN'T THEY
17 HAD A MARKET AND WHY DO YOU KNOW THAT YOU CAN FIND A
18 MARKET? THIS IS THE IMPORTANT THING.

19 MR. GIBSON: THERE ARE A COMBINATION OF REASONS.
20 MOST OF THOSE PLANTS YOU ARE REFERRING TO WERE SMALL, I
21 BELIEVE. PEOPLE WHO WILL BUILT THEM WERE MORE INTERESTED
22 IN THE TECHNOLOGY THAN THEY WERE IN THE BUSINESS ASPECTS
23 OF THE THING.

24 SUCH PEOPLE USUALLY ARE NOT VERY GOOD
25 MARKETERS, AND COMPOST. ALTHOUGH IT'S A MARVELOUS



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1 PRODUCT, HAS TO BE SOLD. HAS TO BE SOLD AGGRESSIVELY.
2 NOW, AN EXAMPLE OF WHAT CAN BE DONE IS THE PRODUCT CALLED
3 MILORGANITE. SOME OF YOU HAVE PROBABLY USED THAT IN YOUR
4 GARDENS. IT'S MATERIAL MADE FROM SEWAGE SLUDGE BY
5 MILWAUKEE, WISCONSIN. THEY SELL THAT ALL OVER THE UNITED
6 STATES.

7 HERE IN SOUTHERN CALIFORNIA IT SELLS FOR --
8 I FORGET -- IT SELLS IN A 40-POUND BAG -- I FORGET THE
9 NUMBER -- BUT IT COMES OUT TO SOMETHING 3 OR \$400 A TON.
10 AND THEY SELL ALL THEY MAKE. YOU HAVE TO SELL IT. IT'S
11 A BUSINESS. YOU HAVE TO BE SOPHISTICATED AND AGGRESSIVE.

12 BOARD MEMBER ARAKALIAN: AGAIN, I'VE BEEN TO
13 PLANTS I SAW WHERE THEY BOTH SOLD IT IN BULK TO GOLF
14 COURSES, ETC., OR TRIED TO, AND THEY WERE PACKAGING SOME
15 IN NICE PRETTY PACKAGES, LITTLE BAGS, A DYE LOT, THE
16 WHOLE BIT, AND THEY SAID THEY HAD -- THEY JUST COULDN'T
17 SELL ENOUGH TO MAKE IT WORTHWHILE AND THEY COULDN'T FIND
18 A MARKET.

19 I'M WONDERING WHY NOT, FIRSTLY; AND,
20 SECONDLY, IF THEY'RE HAVING THAT MUCH TROUBLE FINDING A
21 MARKET, AND YET YOU FEEL THAT BETTER MERCHANDISING CAN
22 CREATE A MARKET OR FIND A MARKET, THAT WOULD BE BETTER
23 YET; BUT IF WE -- THEN AS THE TECHNOLOGY GOT USED AND
24 MORE AND MORE WAS COMPOSTED, IF THERE'S A SHORT SUPPLY OF
25 IT NOW, YOU KNOW, IT'S SUPPLY AND DEMAND. YOU CAN FLOOD

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1 THE MARKET. THEN WHERE DO YOU GO? I THINK IT'S GREAT IF
2 YOU CAN GET RID OF THE STUFF.

3 MR. GIBSON: THERE ARE SEVERAL THINGS I'D LIKE
4 TO SAY ABOUT THAT. I MENTIONED THOSE PLANTS WERE
5 PROBABLY SMALL PLANTS. LIKE ANY INDUSTRIAL OPERATION,
6 THERE'S AN ECONOMY TO SCALE. THESE ARE GOOD-SIZED PLANTS
7 I WAS SHOWING YOU.

8 BOARD MEMBER ARAKALIAN: I NOTICED THAT.

9 MR. GIBSON: AND, THEREFORE, THE COST PER TON IS
10 GOING TO BE LESS. AND, IN FACT, WE CAN SELL COMPOST FOR
11 LESS THAN THE COMMON SOIL CONDITIONERS, SUCH AS PEAT MOSS
12 AND THESE KIND OF PRODUCTS. AND WE EXPECT TO. THEN AS
13 PEOPLE FIND HOW GOOD IT IS, HOW MUCH BETTER IT IS THAN
14 OTHER PRODUCTS, THEN THE PRICE WILL RISE TO BALANCE THE
15 SUPPLY AND DEMAND.

16 THIS ISN'T JUST A THEORY BECAUSE, AS I
17 SAID, THERE ARE HUNDREDS OF THESE PLANTS AROUND THE
18 WORLD. AND MOST OF THEM HAVE BACKLOGS. IN FACT, IN
19 AUSTRIA THE GRAPE GROWERS, THE VINEYARD OPERATORS, RAISED
20 THE CAPITAL TO BUILD TWO DIFFERENT DANO PLANTS SO THEY
21 COULD HAVE AN ASSURED SUPPLY OF COMPOST FOR THEIR
22 VINEYARDS. IT'S A GOOD PRODUCT AND IT IS SOLD. AND I
23 MIGHT SAY THAT WE HAVE NO INTENTION OF INVESTING MILLIONS
24 OF DOLLARS IN A PLANT THAT HAS TO BE SHUT DOWN BECAUSE WE
25 CAN'T GET RID OF THE COMPOST.

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1 BOARD MEMBER ARAKALIAN: I'M WITH YOU. I WOULD
2 ASSUME THAT. IT'S JUST THAT -- AND, FRANKLY, I WAS MORE
3 SHOCKED FINDING OUT THERE WAS NO MARKET FOR IT THAN I
4 WOULD BE IF I WAS TOLD THERE WAS A MARKET FOR IT, EXCEPT
5 I HEARD ABOUT THE NO MARKET FROM SO MANY SOURCES, I START
6 THAT MANY PEOPLE ALL DOING A CRAPPY JOB, YOU KNOW.

7 MR. GIBSON: IT'S BECOME THE CONVENTIONAL
8 WISDOM. IT'S REPEATED AND REPEATED AND REPEATED. THEY
9 HAVE MADE A PROPOSAL TO SAN DIEGO, AND WE MADE QUITE AN
10 INTENSIVE STUDY OF THE MARKET FOR COMPOST THERE. AND,
11 BOY, IT'S A MARVELOUS MARKET. THEY NEED IT BADLY. THEY
12 PAY HIGH PRICES. THEY'RE GETTING THEIR PEAT MOSS FROM
13 CANADA. THE MATERIALS THEY'RE USING, THERE'S MORE
14 TRANSPORTATION COST TO THEM THAN THERE IS MATERIAL COST.

15 THE PLANT IN SAN DIEGO, WE COULD SELL IT AT
16 AN EXTREMELY COMPETITIVE PRICE AND IT'S A BETTER PRODUCT.
17 SO IF YOU GOT A BETTER PRODUCT AND A BETTER PRICE, THEN
18 IT'S UP TO YOU TO SELL IT OR YOU'RE NOT DOING THE JOB.

19 CHAIRMAN GALLAGHER: THANK YOU. ANY MORE, SAM?

20 MR. BEAUTROW: HE STOLE ALL THE THUNDER AS
21 USUAL.

22 BOARD MEMBER ARAKALIAN: THAT'S WHY I WANTED TO
23 GO FIRST.

24 BOARD MEMBER BEAUTROW: IT'S NOT THAT -- I THINK
25 THERE'S SOME IMPRESSIONS THAT, MAYBE, THE BOARD DOESN'T

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1 SUPPORT THIS OR IT'S NOT ENTHUSIASTIC. AND I THINK WE'VE
2 ALWAYS BEEN ENTHUSIASTIC ABOUT IT AS ANOTHER TOOL IN
3 SOLVING THE PROBLEM, IN OTHER WORDS, THE ARROWS IN THE
4 QUIVER. AND I KNOW THERE'S A PROCESS THAT THEY'RE TRYING
5 TO SELL TO THE CITY OF LOS ANGELES, BUT THE MATTER OF
6 FACT IS THERE'S NO OPERATING COMPOST PLANTS IN THE UNITED
7 STATES THAT I'M AWARE OF.

8 IN THE UNITED STATES -- THE ONE IN PORTLAND
9 MAY BE THE FIRST. AND I THINK ONE OF THE THINGS IS THE
10 BUGABOO IS THAT SHEAR SIZE AT 2,000-TON-A-DAY PLANT COULD
11 AVERAGE -- LIKE VENTURA COUNTY, FOR INSTANCE -- A
12 2,000-TON-A DAY PLANT WOULD BE SIGNIFICANT. I DON'T
13 THINK ANY OF THOSE EUROPEAN PLANTS ARE OF THAT SCALE, ARE
14 THEY?

15 MR. GIBSON: NO. I DON'T THINK WE'D WANT TO
16 BUILD ONE THAT BIG. WE WOULD RATHER BUILD 4 OR
17 500-TON-A-DAY PLANTS SCATTERED AROUND THE CITIES.

18 BOARD MEMBER BEAUTROW: I KNOW, BUT THE THINKING
19 HERE IS THAT WE'VE GOT A WASTE DISPOSAL PROBLEM, AND IT'S
20 HARD ENOUGH TO GET A SOLUTION FOR ONE LANDFILL. HOW
21 WOULD YOU LIKE TO GET A SOLUTION FOR FIVE COMPOSTING
22 PLANTS? THAT'S INHERENTLY ONE OF THE DIFFICULTIES, THE
23 SHEAR MASSIVE SIZE IN SOME OF THE URBAN AREAS OF DEALING
24 WITH THIS QUANTITY OF WASTE.

25 WHEN YOU SAY. "LET'S HAVE A LOT OF THEM



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1 SCATTERED AROUND," WHILE PEOPLE PERCEIVE THAT ALL YOU'VE
2 GOT IS A LOT OF PROBLEMS SCATTERED AROUND. AND SO, YOU
3 KNOW, PHILOSOPHICALLY, POLITICALLY, I THINK THAT THEY
4 WOULD LIKE TO CONSOLIDATE THE PROBLEM.

5 I'M NOT TRYING TO BE NEGATIVE. I THINK
6 IT'S A BEAUTIFUL PLANT, BUT YOU NEED A LOT OF SPACE AND
7 YOU NEED A HOLDING TIME FOR IT. AND I THINK IT'S ALL
8 THESE THINGS THAT GO TOWARDS NOT MAKING IT AS ACCEPTABLE.
9 I GUESS IN EUROPE THEY DON'T HAVE ANY ALTERNATIVES.
10 THERE'S NO LANDFILL SPACE.

11 MR. GIBSON: THEY RAN INTO THIS PROBLEM LONG
12 BEFORE WE DID HERE.

13 BOARD MEMBER BEAUTROW: WHERE, I THINK, IT'S
14 GOING TO BE COMPETITIVE PRICEWISE WHEN IT NEVER WAS
15 BEFORE. ANYWAY, I JUST WANTED TO EVIDENCE OUR SUPPORT,
16 BUT YET A CONCERN FOR THESE PRACTICAL ASPECTS OF IT.

17 MR. GIBSON: ANYTHING YOU DO WITH GARBAGE IS
18 GOING TO CREATE SOME PROBLEMS; BUT AS FAR AS SPACE IS
19 CONCERNED, A 600-TON-PER-DAY PLANT WILL TAKE
20 COMFORTABLY -- WE'D LIKE TO HAVE 17 ACRES. SOMETIMES WE
21 DON'T GET THAT MUCH. FOR EXAMPLE, IN PORTLAND WE'RE ONLY
22 GOING TO HAVE SOMETHING LIKE 14 ACRES, BUT THAT IS ABOUT
23 THE AMOUNT OF LAND WE'RE TALKING ABOUT.

24 NOW, IF THAT'S TOO MUCH, THEN WE CAN PUT
25 THE PLANT HERE, WHICH WILL TAKE FOUR OR FIVE ACRES, AND

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1 PUT THE COMPOSTING SOMEPLACE ELSEWHERE WHERE MAYBE IT'S
2 FARTHER FROM CIVILIZATION. AS YOU SEE, THE PLANTS WILL
3 FIT INTO ANY INDUSTRIAL NEIGHBORHOOD. THEY LOOK AS GOOD
4 AS ANY OTHER KIND OF INDUSTRIAL PROCESS.

5 SO DIFFERENT CITIES ARE GOING TO HAVE
6 DIFFERENT PROBLEMS, AND THERE'RE GOING TO BE DIFFERENT
7 SOLUTIONS TO THEM. THAT'S WHY I EMPHASIZE THIS
8 FLEXIBILITY FACTOR. YOU CAN DO IT A LOT OF DIFFERENT
9 WAYS. YOU DON'T HAVE TO DO EVERY ONE THE SAME.

10 IN FACT, EVERY PLANT THAT I KNOW OF HAS
11 BEEN INDIVIDUALLY DESIGNED FOR A PARTICULAR LOCALITY TO
12 MEET THE SHAPE AND THE TERRAIN ON THE PROPERTY, LOCAL
13 CONDITIONS, LOCAL PREJUDICES. OUR PLANT IN PORTLAND IS
14 GOING TO BE A FAIRLY INEXPENSIVE METAL ENGINEERED
15 BUILDING. IF WE BUILD ONE IN SAN DIEGO, IT WILL PROBABLY
16 BE QUITE A LOT MORE EXPENSIVE, BUT ARCHITECTURALLY MORE
17 PLEASING.

18 BOARD MEMBER BREMBERG: MR. CHAIRMAN, YOU SAY
19 YOU NEED 17 ACRES. DO YOU EXPECT GOVERNMENT SUBSIDIARIES
20 ON THIS LAND BECAUSE I'M THINKING IN THE GREATER LOS
21 ANGELES METROPOLITAN AREA WHERE LAND IS SOLD BY THE
22 SQAURE FOOT, NOT BY THE ACRE, YOU ABSOLUTELY WOULD BE
23 CHARGING A HUNDRED DOLLARS A POUND, A THOUSAND DOLLARS A
24 TON TO GET YOUR PAYBACK BUYING LAND BY THE SQUARE FOOT IF
25 YOU NEED 17 ACRES.

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1 I DON'T SEE IN AN AREA LIKE, PARTICULARLY
2 THE LOS ANGELES METROPOLITAN AREA, WHERE THERE'S ANYPLACE
3 AT ALL FOR THIS TO GO UNLESS YOU EXPECT GOVERNMENT
4 SUBSIDY ON A WRITEDOWN ON THE LAND.

5 MR. GIBSON: I DON'T KNOW THIS AREA WELL ENOUGH
6 TO PROBABLY GIVE YOU A VERY INTELLIGENT ANSWER. THE ONLY
7 AREA I'VE HEARD ABOUT IS THE PROPERTY THAT'S NOW BEING
8 USED BY THE AIRPORT.

9 BOARD MEMBER BREMBERG: WHICH AIRPORT?

10 MR. GIBSON: LAX. I DON'T KNOW WHERE.

11 BOARD MEMBER BREMBERG: THAT'S ALREADY BEEN
12 REJECTED BY THE CITY OF LOS ANGELES ON ONE PROPOSAL THAT
13 EVEN HAD LEGISLATIVE PERMISSION TO GO.

14 MR. GIBSON: AS I SAY, EVERY PLACE HAS A
15 DIFFERENT PROBLEM. MAYBE IT'S NOT POSSIBLE. SOMETHING
16 IS GOING TO HAVE TO BE DONE WITH THE GARBAGE.

17 BOARD MEMBER BREMBERG: I WISH IT WERE, BUT I
18 REALLY AND TRULY DON'T SEE IT, PARTICULARLY IN LOS
19 ANGELES COUNTY.

20 MR. GIBSON: THE GARBAGE IS GOING TO KEEP
21 COMING, THE LANDFILL IS GOING TO KEEP FILLING UP, AND
22 SOMETHING WILL HAVE TO BE DONE SOONER OR LATER TO REDUCE
23 THAT VOLUME.

24 BOARD MEMBER BREMBERG: THAT'S WHY I ASKED ABOUT
25 GOVERNMENT WRITEDOWNS ON GOVERNMENT LAND COST.

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1 BOARD MEMBER ARAKALIAN: ONE OF THEM IS,
2 FRANKLY, I DON'T SEE -- OF COURSE, I DON'T KNOW
3 EVERYTHING GINGER KNOWS -- THAT THE LAND SHOULD BE AS BIG
4 A PROBLEM AS IT WOULD SEEM BECAUSE WE PRESENTLY HAVE
5 LANDFILLS, BUT THEY DON'T HAVE THE LIFETIME LEFT THAT
6 WE'D LIKE THEM TO HAVE. AND MOST OF THE LANDFILLS YOU
7 SEE, I SEE THEM ON PERMIT THINGS AND THINGS AT 120 AND
8 300 AND 500 AND 160-ACRE SITES FOR LANDFILLS.

9 AND I WOULD SAY IN AN AREA WHERE YOU CAN'T
10 PUT ONE IN THE CITY, AND I THINK EVEN IF YOU COULD, THE
11 LANDFILL IS A HELL OF A PLACE TO PUT IT. THEY'RE ALREADY
12 GOING THERE. ALL THE CONDITIONS ARE SET FOR THE TRUCKING
13 TO COME IN. BEFORE YOU ARE FINISHED WITH THE COMPOSTING,
14 YOU STILL HAVE STUFF THAT GOES TO THE LANDFILL.
15 THEREFORE, IF YOU PLACE THIS 15- OR 17-ACRE SITE ON A
16 LANDFILL, YOU MIGHT JUST BE MAKING A DENT ON THEIR
17 OVERALL SITE AND MAKE YOUR COMPOST RIGHT THERE. PUT YOUR
18 COMPOSTING PLANT AND THE TRASH WOULD NOT HAVE TO BE
19 TRANSPORTED. IT WOULD JUST BE ZIPPOED INTO THE THING. I
20 THINK THAT COULD BE EASILY HANDLED WHEN THE TIME COMES TO
21 ADDRESS IT.

22 THE OTHER QUESTION I WANT TO ASK IS,
23 OBVIOUSLY, WE AS A BOARD AREN'T GOING TO PUT UP A PLANT.
24 BUT YOU ARE TELLING US THIS. OBVIOUSLY, I HOPE THAT YOU
25 HAVE REASON FOR IT. WHERE CAN WE BE HELPFUL AND WHAT CAN

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1 WE DO TO HELP TRYING TO PROMOTE YOUR DOCTRINE AND NOT TO
2 DO IT FOR YOU BECAUSE IF ANYBODY ELSE HAS A PROCESS, LET
3 THEM USE THEIRS. JUST A CONCEPT. WHAT CAN WE DO TO BE
4 HELPFUL?

5 MR. GIBSON: I DIDN'T COME WITH ANY SPECIFIC
6 IDEAS OF ACTION YOU MIGHT TAKE.

7 BOARD MEMBER ARAKALIAN: DID OR DIDN'T?

8 MR. GIBSON: I DID NOT. MOSTLY, I THINK OUR
9 FIRST PROBLEM IS TO GET THE INFORMATION OUT TO MORE
10 PEOPLE. AND, OF COURSE, THIS IS ONE OF THE MOST
11 INFLUENTIAL GROUPS IN THE STATE AS FAR AS MATTERS OF THIS
12 KIND ARE CONCERNED.

13 AFTER I LEAVE TODAY, YOU WILL KNOW ABOUT US
14 AND YOU WILL KNOW WHERE TO -- IF YOU NEED INFORMATION OR
15 IF, ON THE OTHER HAND, THERE ARE GROUPS THAT YOU FEEL
16 WOULD LIKE TO GET THIS INFORMATION AND HAVE A
17 PRESENTATION SUCH AS THIS, YOU WILL KNOW WHERE TO REACH
18 US.

19 BOARD MEMBER ARAKALIAN: OKAY. THE OTHER PART
20 OF MY QUESTION I FORGOT WAS YOU SAY YOU CAN MAKE A MORE
21 ECONOMICAL AND LESS ECONOMICAL AND A MORE EXPENSIVE
22 PLANT. WHAT BALLPARK NUMBER ARE WE TALKING ABOUT? SAY,
23 FOR EXAMPLE -- NOT AT A LARGEST ONE. OBVIOUSLY, YOU
24 START SMALL AND GO BIG. TO MAKE, SAY, A PILOT PLANT
25 SMALL ENOUGH TO BE LESS COSTLY, BUT LARGE ENOUGH TO BE

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1 ABLE TO OPERATE PROFITABLY, ABOUT WHAT WOULD THAT
2 CRITERIA BE AND WHAT BALLPARK NUMBER ARE YOU TALKING
3 ABOUT BUILDING WITHOUT LAND?

4 MR. GIBSON: I REALLY WORRY ABOUT QUESTIONS LIKE
5 THAT BECAUSE PEOPLE TEND TO QUOTE YOU AFTER YOU'VE SAID
6 SOMETHING.

7 BOARD MEMBER ARAKALIAN: WHISPER IN MY EAR AND I
8 PROMISE I WON'T QUOTE IT.

9 MR. GIBSON: THERE ARE SO MANY DIFFERENT
10 FACTORS. THERE'S LAND COST CAN MAKE A TREMENDOUS --

11 BOARD MEMBER ARAKALIAN: I SAY WITHOUT LAND
12 COST. YOU CAN'T POSSIBLY GUESS THAT. IN FACT, WITHOUT
13 BUILDING COST, IF YOU WILL, BECAUSE EVERYBODY MIGHT WANT
14 IT A MORE CENTRAL PLACE, YOU WANT ONE OF THOSE FANCY
15 GLASS BUILDINGS OUT IN THE BOONIES, YOU GOT A SHACK AND
16 THE PIPE SHOWS, WHERE THE TECHNOLOGY OF IT AND THE
17 WORKABLE PART OF IT, HOW CHEAPLY CAN BE DONE? WHAT KIND
18 OF A COST APPROXIMATELY? AND THEN THE PERSON ADD TO THAT
19 HOW FANCY HE WANTS HIS BUILDING OR WHAT KINDS OF A SITE
20 HE WANTS.

21 MR. GIBSON: AS A GENERAL BALLPARK, WE'RE
22 TALKING ABOUT TO 10 TO \$15 MILLION. BIGGER PLANTS, OF
23 COURSE, GET UP TO 20 OR \$30 MILLION.

24 BOARD MEMBER ARAKALIAN: WHEN YOU SAY 10 TO 15
25 MILLION. WHAT'S THAT? THAT'S WITHOUT LAND OR WITHOUT --



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1 MR. GIBSON: IT MIGHT BE A LITTLE LESS WITHOUT
2 LAND.

3 MR. ARAKALIAN: EVERYTHING ELSE, THE BUILDING
4 AND STRUCTURE. S WE CAN SAY, MAYBE, \$15 MILLION COULD
5 CONCEIVABLY PUT IN A PLANT.

6 MR. GIBSON: MIGHT EVEN GET A TWO-DRUM PLANT FOR
7 THAT.

8 BOARD MEMBER ARAKALIAN: NOW, A PLANT THAT SIZE
9 HAS POTENTIALLY, IF THEY CAN FIND A NORMAL MARKET, WHAT
10 SORT IF INCOME WOULD JUSTIFY THAT EXPENDITURE? WOULD IT
11 BE A PROFITABLE OPERATION OR HAVE TO BE A SUBSIDIZED
12 OPERATION?

13 MR. GIBSON: WELL, WE ALWAYS PROPOSE A TIPPING
14 FEE, WHICH WILL ALLOW THE PLANT TO OPERATE AT NO OTHER
15 INCOME. AND THEN THE SALE OF COMPOST BECOMES A PLUS.

16 INCIDENTALLY, ONE THING I DIDN'T MENTION
17 WHEN I WAS GOING THROUGH THAT IS IF YOU HAVE, LET'S SAY,
18 A HUNDRED TONS OF WASTE COMING IN, THAT WILL PRODUCE
19 ABOUT 40 TONS OF COMPOST. SOME OF IT DISAPPEARS WHEN
20 IT'S RECYCLED OR SOME OF IT HAS TO BE LANDFILLED, BUT 50
21 PERCENT OF THE COMPOSTABLE MATERIAL IS OXIDIZED AND GIVEN
22 OFF AS CO2 AND WATER. SO YOU DON'T HAVE NEARLY AS MUCH
23 COMPOST AS YOU HAD GARBAGE TO START WITH.

24 BOARD MEMBER VARNER: MR. CHAIRMAN.

25 BOARD MEMBER ARAKALIAN: OKAY. SO THEN YOU'D



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Barristers'
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1 HAVE TO FIGURE FOR THE SIZE OF THE OPERATION YOUR'RE
2 TALKING ABOUT FOR A 10, \$15 MILLION OPERATION IN GENERAL.

3 MR. GIBSON: IT'S NOT 15 MILLION AND IT'S NOT
4 FIVE MILLION.

5 BOARD MEMBER ARAKALIAN: WHAT -- WITH THAT
6 CAPACITY, WHAT -- HOW MANY TONS A DAY COULD IT GENERATE
7 AND HOW MUCH CAN IT TAKE IN, LET'S SAY, A DAY?

8 MR. GIBSON: AS A RULE OF THUMB, WE FIGURE ONE
9 DRUM WILL PROCESS ABOUT 300 TONS PER DAY.

10 BOARD MEMBER ARAKALIAN: 300 A DAY OF TRASH,
11 WHICH WOULD GIVE YOU ABOUT 1800 TON OF COMPOST?

12 MR. GIBSON: YES, ABOUT 40 PERCENT, RIGHT.

13 BOARD MEMBER ARAKALIAN: USING YOUR PROPORTIONS.

14 MR. GIBSON: WELL, IF IT'S 300 TONS, IT WILL BE
15 A 180 TONS OF COMPOST.

16 BOARD MEMBER ARAKALIAN: I PUT THE DECIMAL IN
17 THE WRONG PLACE. ALL RIGHT. NOW, THE 300 TON, YOU WOULD
18 HAVE TO FIGURE HOW MANY DOLLARS A TON FOR TIPPING FEE YOU
19 WILL MANAGE TO GET, AND YOU FEEL THAT THAT COULD PAY FOR
20 A \$15 MILLION PROCESS. THE TIPPING FEE. WHAT WILL YOU BE
21 CHARGING, A \$100 TIPPING FEE.

22 MR. GIBSON: NO, NO. TIPPING FEES WILL RUN FROM
23 \$30 TO \$60, DEPENDING UPON THE VOLUME.

24 BOARD MEMBER ARAKALIAN: IF THOSE ARE THE
25 NUMBERS NECESSARY. WE AREN'T READY YET BECAUSE OUTS --

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1 THEY WILL BE IN ANOTHER YEAR PROBABLY, BUT WE'RE GETTING
2 THERE, BUT WE'RE NOT THERE YET.

3 MR. GIBSON: SOME PLACES WON'T TALK TO US. THEY
4 SAY -- WE'RE ONLY SPENDING \$12 A TON TO PUT THIS MATERIAL
5 IN A LANDFILL, SO WHY SHOULD WE SPEND 30 --

6 BOARD MEMBER ARAKALIAN: PRESENTLY, TRY ABOUT
7 NINE. BUT THEN IT'S GOING TO -- OBVIOUSLY, WE KNOW NEXT
8 YEAR IT'S NOT GOING TO BE NINE.

9 MR. GIBSON: IN OTHER PLACES IN THE COUNTRY,
10 THEY'RE ALREADY PAYING A \$100 A TON. AND THIS IS THE
11 TREND, OF COURSE.

12 INCIDENTALLY, THE REASON THERE AREN'T DANO
13 PLANTS IN THIS COUNTRY IS ILLUSTRATED BY AN EXPERIENCE
14 THAT AN ASSOCIATE OF MINE HAD. JACK TALBOT IS ONE OF THE
15 FOUNDERS OF MY COMPANY. HE IS HEAD OF AN ENGINEERING
16 FIRM WHO, INCIDENTALLY, WILL DESIGN MUCH OF THE MACHINERY
17 IN THESE PLANTS. HE BECAME FASCINATED WITH THE POTENTIAL
18 OF COMPOSTING ABOUT TEN YEARS AGO.

19 AND THE MORE HE LOOKED INTO IT, THE MORE
20 INTRIGUED HE BECAME AND HE STARTED GETTING INFORMATION
21 AND MAKING COST ESTIMATES AND SO ON. AND, FINALLY, HE
22 WENT TO THE CITY OF PORTLAND AND GOT SOMEBODY THAT WOULD
23 LISTEN TO HIM AND SAID, "YOU KNOW THAT LANDFILL OUT IN
24 ST. JOHNS IS GOING TO BE FULL IN TEN YEARS. WHAT YOU
25 NEED TO DO IS COMPOST THAT WASTE SO THAT IT WILL LAST

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1 MUCH LONGER." AND THEY SAID, "GEE, THAT SOUNDS PRETTY
2 GOOD. AND YOU GET THIS GOOD HUMUS TOO, RIGHT?" JACK
3 SAID, "RIGHT." THEY SAID, "WELL, HOW MUCH WOULD IT
4 COST?"

5 AND I DON'T REMEMBER, BUT I THINK JACK SAID
6 SOMETHING LIKE \$15 A TON. FELLOW SAID, "FORGET IT. IT'S
7 ONLY COSTING \$5 A TON TO PUT IT IN THE LANDFILL. OUR
8 CITIZENS AREN'T GOING TO PAY \$15 A TON FOR DISPOSING OF
9 THE WASTE." NOW ST. JOHN'S LANDFILL IS ALMOST FULL AND
10 THEY'VE BEEN TRYING FOR TWO OR THREE YEARS OR LONGER TO
11 SITE ANOTHER LANDFILL, AND THEY'VE NEVER MADE IT YET. SO
12 MOST OF THE WASTE THAT ISN'T COMPOSTED IN THE FUTURE IS
13 GOING TO GO EAST OF THE CASCADE RANGE UP IN THE EASTERN
14 OREGON LANDFILL, BUT THAT IS -- THIS IS WHAT HAS HAPPENED
15 EVERY PLACE ACROSS THE COUNTRY.

16 DANO, FOR YEARS, HAS THOUGHT THIS WOULD BE
17 A WONDERFUL PLACE FOR --

18 BOARD MEMBER ARAKALIAN: HAVE YOU EVER SEEN A
19 SITUATION WHERE, FOR EXAMPLE, AN EXISTING LANDFILL NOT
20 PUT THEIR OWN COMPOSTING PLANT IN, IF THEY DIDN'T FEEL IT
21 WAS A FEASIBLE PROJECT, BUT ANOTHER OPERATION, SAY A
22 PRIVATE COMPANY, COME ALONG AND PUT THEIR COMPOSTING
23 PLANT ON A LANDFILL SITE USING THEIR LAND AND, YOU
24 KNOW --

25 MR. GIBSON: I DON'T KNOW OF AN INSTANCE OF



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1 THAT, BUT IT CERTAINLY IS POSSIBLE. I GUESS THE MAIN
2 CONSIDERATION WOULD BE THAT THE GROUND WAS COMPACTED
3 ENOUGH THAT YOU COULD BUILD HEAVY EQUIPMENT ON IT. YEAH,
4 THAT'S -- YOU'VE GOT FINISHED AND YOU ARE THROUGH AND
5 PEOPLE ARE USED TO A LOT MORE GARBAGE COMING IN, THAT
6 WOULD BE ONE THING YOU COULD DO.

7 BOARD MEMBER ARAKALIAN: LIKE I WANTED TO BUILD
8 ONE. I'M JOE YX COMPANY AND I WENT TO A LANDFILL AND
9 SAID, "LOOK, YOU'VE GOT 600 ACRES THERE ON YOUR SITE.
10 LEASE ME A 15- OR 20-ACRE PARCEL. I WANT TO BUILD A
11 COMPOSTING PLANT ON YOUR PLACE." EXCEPT YOU ARE GOING TO
12 CUT THEIR INCOME BECAUSE NOW, ALL OF A SUDDEN, YOU ARE
13 ONLY GIVING THEM ABOUT A THIRD OF THEIR REVENUE FROM
14 TIPPING BECAUSE YOU ARE GOING -- THAT WOULDN'T MAKE TOO
15 MUCH SENSE..

16 MR. GIBSON: THE PLACING OF A COMPOSTING PLANT
17 AT OR NEXT TO A LANDFILL IS VERY COMMON. IN FACT, THE
18 PROPOSAL IN SAN DIEGO CONTEMPLATES PUTTING A PLANT NEXT
19 TO THE MIRAMAR LANDFILL. AND WE HAVE ANOTHER PROPOSAL ON
20 LONG ISLAND WHERE THE PLANT WOULD BE PLACED AT THE
21 LANDFILL AND, IN FACT, WILL USE THE SAME SCALES FOR
22 WEIGHING THE GARBAGE COMING IN. BUT I'M NOT AWARE OF
23 ANYONE DOING SPECIFICALLY WHAT YOU SAID, BUT I DON'T SEE
24 WHY IT COULDN'T BE DONE.

25 BOARD MEMBER ARAKALIAN: AFTER I SAID IT. IT'S



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1 MAKING SENSE. WHY WOULD THE LANDFILL LET YOU PUT IT
2 THERE, COLLECT A LITTLE RENT FROM HIS PROPERTY, THEN CUT
3 HIS INCOME DOWN UNLESS HE WAS RUNNING OUT OF SPACE ANYWAY
4 AND COULD ELONGATE HIS LANDFILL; WHEREAS, HE MIGHT NOT
5 HAVE A LANDFILL ANYMORE ONE MORE YEAR FROM NOW. SO IT
6 CAN GO. IT'S A VEHICLE MAYBE. THREE HUNDRED TON A DAY
7 AT \$50, YOU WOULD HAVE -- \$40, YOU WOULD HAVE \$12,000 A
8 DAY OF REVENUE TIPPING FEE. ON 15 MILLION BUCKS, YOU'D
9 HAVE ABOUT A MILLION AND A HALF BUCKS A YEAR JUST
10 INTEREST ON YOUR MONEY. IT'S CONCEIVABLE IF YOU GET UP
11 TO 40, 50 BUCKS TO CUT THE NUT MAYBE.

12 MR. GIBSON: I HAVE SOME FOLDERS HERE WITH
13 INFORMATION THAT YOU MIGHT LIKE TO HAVE. INCLUDED IS A
14 LITTLE SAMPLE BAG OF COMPOST.

15 I'LL PUT THESE OVER HERE IN CASE ANYONE
16 ELSE IN THE ROOM WOULD LIKE SOME. ALSO, I'D LIKE TO PUT
17 THIS UP FOR ANYONE'S INSPECTION. THIS IS A SIMPLIFIED
18 DIAGRAM OF HOW A COMPOSTING PLANT WORKS, AND I'LL PUT
19 THAT AGAINST THE WALL OVER HERE, AND I ALSO HAVE A CROSS
20 SECTIONAL DRAWING OF A TYPICAL DANO COMPOSTING PLANT.

21 LET'S SEE. IS THERE ANYTHING ELSE, ANY
22 OTHER QUESTIONS?

23 CHAIRMAN GALLAGHER: I THINK WE'RE GOING TO HAVE
24 TO MOVE ON BECAUSE WE'RE GOING TP HAVE ANOTHER COMPOSTING
25 ORGANIZATION THAT WANTS TO TALK ABOUT THEIR PROCESS. WE

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1 THANK YOU VERY MUCH. IT WAS MOST INTERESTING, AND I MUST
2 TELL YOU THAT IN OUR PLAN FOR INTEGRATED WASTE
3 MANAGEMENT, THERE'S NO QUESTION THAT SOMEWHERE DOWN THE
4 STREAM COMPOSTING IS GOING TO PLAY A LARGE PART. SO
5 WE'RE VERY APPRECIATIVE OF BEING KEPT UP-TO-DATE ON
6 WHAT'S GOING ON.

7 WE'RE NOW READY TO MOVE ON TO ITEM 22,
8 PRESENTATION OF RECOMP RESOURCE RECOVERY COMPOST
9 FACILITIES.

10 MR. OLDALL: YES, MR. CHAIRMAN, BOTH THE PLANT
11 AND THE COMPOST. WE'LL MOVE ALONG TO THE PRESENTATION OF
12 THE RECOMP INCORPORATED RESOURCE RECOVERY COMPOSTING
13 SYSTEM. AND MITCH TALMADGE WILL, AGAIN, DO THE
14 INTRODUCTION ON THE ITEM.

15 MR. TALMADGE: MR. CHAIRMAN AND MEMBERS OF THE
16 BOARD, I CAN SEE FROM YOUR QUESTIONS ON OUR FIRST SPEAKER
17 THAT THERE IS A GREAT INTEREST HERE IN THE COMPOSTING.
18 AND STAFF, I BELIEVE, AGREES WITH THE BOARD THAT IT WILL
19 BE AN IMPORTANT PART OF OUR INTEGRATED WASTE MANAGEMENT
20 PROGRAM AND THE 20-PERCENT RECYCLING GOALS.

21 SO TODAY WE HAVE ANOTHER SPEAKER, MR. BILL
22 HEALEY, THE VICE PRESIDENT OF MARKETING FOR RECOMP
23 INCORPORATED. RECOMP INCORPORATED OWNS AND OPERATES
24 RESOURCE RECOVERY AND COMPOSTING FACILITIES. THEY OFFER
25 TO A COMMUNITY A SERVICE THAT INCLUDES NO REQUIREMENTS

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1 FOR CAPITAL EXPENDITURES, FACILITY OWNERSHIP, OR PERMIT
2 MAINTENANCE.

3 THIS SYSTEM RECOVERS RECYCLABLE MATERIALS
4 FROM THE MUNICIPAL SOLID WASTE STREAM, AND THEN THE
5 BIODEGRADABLE PORTION IS COMPOSTED AND, IN THIS
6 PARTICULAR PROCESS, MIXED WITH SEWAGE SLUDGE SO IT
7 BECOMES CO-COMPOST. ANY REMAINING MATERIALS WILL BE
8 LANDFILLED.

9 I'D LIKE TO INTRODUCE MR. HEALEY.

10 MR. HEALEY: GOOD MORNING, LADIES AND GENTLEMEN.
11 I'M BILL HEALEY WITH RECOMP. ALSO, HAVE WITH US TODAY
12 JIM BUTLER, OUR PRESIDENT, WHO WILL WALK YOU THROUGH THE
13 PLANT IN OUR BRIEF SLIDE PRESENTATION. AND MARY BALLY IS
14 PRESENT SEATED HERE, WHO'S OUR SOUTHERN CALIFORNIA
15 REPRESENTATIVE.

16 OUR COMPANY WAS FOUNDED TWO YEARS AGO WITH
17 THE SPECIFIC PURPOSE OF ESPOUSING AND PROMOTING THE
18 CO-COMPOSTING OF MUNICIPAL SOLID WASTE AND SEWAGE SLUDGE
19 AS AN ECONOMICAL AND ENVIRONMENTALLY SOUND ALTERNATIVE IN
20 THE FUTURE.

21 BOTH MR. BUTLER AND MYSELF AND EVERYONE
22 ELSE ASSOCIATED WITH THIS COMPANY HAVE 20, 10, 15 YEARS,
23 DEPENDING ON THE AREA OF EXPERTISE, IN THE WASTE
24 BUSINESS, WHETHER THAT'S COMPOSTING, MARKETING OF AG. OR
25 COMPOST PRODUCTS, OR HAVING BEEN IN THE WASTEWATER

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1 INDUSTRY. SO WE COME WITH A BACKGROUND OF SEEING WHERE
2 THE COMPOSTING HAS NOT BEEN THE WEAKNESSES PERCEIVED IN
3 REAL THAT HAVE ACCOMMODATED THIS REALLY NONINDUSTRY. AND
4 WITH OUR, I GUESS, OUR ABILITY AND EXPERTISE, WE THOUGHT
5 WE COULD DO SOMETHING POSITIVE IN THAT VEIN.

6 WE FELT IT CRITICAL THAT AN OPERATIONAL
7 FACILITY BE IN EXISTENCE BEFORE WE WENT OUT AND HYPED THE
8 WORLD. PRIMARILY, THERE'S A LOT OF UNKNOWNNS IN THE
9 HANDLING OF TRASH AND, CERTAINLY, IN THE CO-COMPOSTING
10 THERE'S A LOT OF REGULATORY PROBLEMS AND ISSUES; AND, OF
11 COURSE, AS HAS BEEN SAID, ALWAYS THE SECOND QUESTION
12 AFTER DOES IT WORK IS WHERE ARE THE MARKETS FOR THE
13 PRODUCTS. A LOT OF THESE QUESTIONS HAD TO BE ADDRESSED
14 AND ANSWERED, AND THAT IS THE PURPOSE OF OUR COMPANY.

15 COUPLE CARDINAL POINTS ON OUR PROCESS. I
16 GUESS ONE QUIP I LIKE TO USE IS IF YOU SHRED YOUR DEBT,
17 WE FEEL VERY STRONGLY THAT IF YOU SHRED OR HAMMERMILL
18 GARBAGE, PARTICULARLY ON THE FRONT END, BUT ANY TIME IN
19 THE PROCESS YOU JUST ASSASSINATED ANY MARKET POTENTIAL
20 FOR PRODUCT. AND TO ANSWER EARLIER QUESTION, WHY ONE OF
21 THE REASONS OF FAILURE OF COMPOSTING PLANTS FOR THROWING
22 THEM UP AND THROWING IT OUT IS THAT ESSENTIALLY THEY
23 PRODUCED A MATERIAL THAT HAD NO MARKETS BECAUSE OF ALL
24 THE REJECT MATERIALS THAT WERE IN IT.

25 TYPICALLY, THAT'S THE CASE, WHICH GOES BACK



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1 TO WHY IS U.S. GARBAGE DIFFERENT THAN EUROPEAN, ALTHOUGH
2 THEY NOW ARE CATCHING UP DUE TO MARKETING PRACTICES
3 TYPICALLY IN THE PAST. EUROPEAN GARBAGE DIDN'T HAVE
4 PLASTICS AND DIDN'T HAVE A LOT OF PACKAGE PAPER, BUT
5 PRIMARILY THE PLASTICS WERE THE PROBLEM. WHEN YOU GO
6 SHREDDING PLASTICS, YOU HAVE JUST SHREDDED YOUR
7 MARKETABLE MATERIAL. EVEN IN SCREENING ON THE BACK END,
8 THERE'RE JUST TOO MANY REJECTS IN THERE, WHETHER --
9 NEVERTHELESS THAT'S -- RATHER THAN GO ON AND ON FURTHER,
10 WHAT WE'D LIKE TO DO NOW IS GIVE YOU A LITTLE OVERVIEW OF
11 AN EXISTING OPERATIONAL, AS FAR AS WE KNOW, THE ONLY
12 PERMITTED CO-COMPOSTING FACILITY IN THE UNITED STATES,
13 WHICH IS IN ST. CLOUD, MINNESOTA, AND WAS ON TOUR AT THE
14 SEVENTH NATIONAL RECYCLING CONGRESS HELD, INCIDENTALLY,
15 IN ST. PAUL THIS LAST DECEMBER.

16 IT'S A 50-TON-A-DAY FACILITY. THIS SUMMER
17 IT WILL BE EXPANDED TO A HUNDRED TONS. OUR PRIMARY
18 MARKETING INTEREST HAS BEEN THE MIDWEST AND THE WESTERN
19 U.S. WE ARE BASED OUT OF DENVER AND MINNEAPOLIS AND HAVE
20 BEEN IN THE SHADOWS FOR THE LAST YEAR, BUT REALLY UNTIL
21 SEPTEMBER WE WAITING UNTIL THAT TIME TO LET EVERYONE KNOW
22 WHO WE WERE, WHERE WE CAME FROM, WHAT OUR PROCESS IS, AND
23 OPEN OURSELVES UP TO PUBLIC SCRUTINY.

24 SO WITHOUT ANY FURTHER ADO, I'D LIKE TO
25 INTRODUCE YOU TO JIM BUTLER, WHO WILL BEAT HIS GUMS

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1 WALKING YOU THROUGH THE PLANT, AND I'LL GET THE SLIDES.

2 MR. BUTLER: THANK YOU FOR THE OPPORTUNITY OF
3 COMING BEFORE YOU TODAY. TRY NOT TO BE REPETITIVE.

4 CERTAINLY NOT A LOT OF THE GOOD BACKGROUND PROVIDED BY
5 THE DANO GENTLEMAN. IT'S AN EMBRYONIC INDUSTRY, VERY
6 NEW. WE ALL HAVE A LOT TO LEARN IN IT AS THE MASS BURN
7 TECHNOLOGY HAS COME AND NOW FOUND ITS PLACE IN THE UNITED
8 STATES, NOTWITHSTANDING DIFFICULTY IN CERTAIN REGIONS FOR
9 PUBLIC ACCEPTANCE.

10 WE'RE VERY CONFIDENT THE SIZE OF THE
11 INDUSTRY LENDS ITSELF TO A VARIETY OF TECHNOLOGIES,
12 HOPEFULLY, A VARIETY OF VERY STRONG COMPANIES. IT WON'T
13 LEGITIMIZE UNLESS WE ALL CAN PROSPER, PUT A
14 COST-EFFECTIVE ALTERNATIVE IN FRONT OF THE COMMUNITIES,
15 AND BE COMPLEMENTARY TO THE PROGRAMS THAT EXIST CURRENTLY
16 WITHIN THE COMMUNITIES.

17 OUR PLANT IS PARTICULARLY DESIGNED, AS BILL
18 MENTIONED, AS A CO-COMPOSTING PROCESS IN VESSEL.
19 NOTWITHSTANDING OUR EXPERIENCE IN THE GARBAGE BUSINESS,
20 WE LEARNED A LOT WITH WELL OVER A MILLION DOLLARS OF
21 TRAINING TIME ON THE DIFFICULTIES OF HANDLING MUNICIPAL
22 TRASH, ESPECIALLY WITH EMPHASIS TOWARD MARKETABLE
23 PRODUCTS.

24 ONE OF THE MAIN CRITERIA FOR OUR PLANT WAS
25 TO MAKE COMPOST, AND WE WERE FORCED INTO RECYCLING.

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1 BASICALLY, TO GET THE STUFF OUT OF OUR COMPOST PRODUCT.
2 WHEREAS, OTHER TECHNOLOGIES YOU MIGHT BE FAMILIAR WITH,
3 THE ROYER CONCEPT, ARE ACTUALLY RECYCLERS WHO ARE FORCED
4 INTO COMPOSTING TO GET RID OF THE ORGANICS THEY DON'T
5 HAVE A MARKET FOR.

6 THE DIFFERENCE IN APPROACH, I THINK, IS
7 SIGNIFICANT, PARTICULARLY AROUND THE KEY QUESTION OF
8 WHERE DO YOU FIND THE OUTLETS FOR THE PRODUCTS. WHAT IS
9 SAFELY AND ECONOMICALLY PREDICTABLE.

10 WITHIN THE SYSTEM WE'VE COME UP WITH WE
11 FOUND THAT FLEXIBILITY WAS A VERY LARGE KEY. A VERY
12 BRIEF NOTE: IN COMPOSTING ONE IS CONCERNED ABOUT TO
13 PROVIDE FOOD FOR THE BUGS, AIR, WATER, AND FOOD. AND THE
14 FOOD MUST BE A GOOD MIXTURE OF CARBON AND NITROGEN TO BE
15 AN EFFECTIVE PRODUCT. CARBON COMES FROM MANY SOURCES.
16 TYPICALLY, A VERY AVAILABLE ONE, ESPECIALLY FOR GREEDY
17 PRIVATE PEOPLE, IS TRASH BECAUSE THERE ARE SOME TIP FEES
18 ASSOCIATED WITH IT.

19 COMPARABLE TO THAT AND EQUALLY AS
20 BENEFICIAL, AGRICULTURAL WASTE, CERTAINLY CAN BE PAPER
21 WASTE PRODUCTS OUT OF HEAVY INDUSTRY AND, ETC.; BUT
22 PREDOMINANTLY MUNICIPAL TRASH. ON THE INSIDE OR NITROGEN
23 SIDE, TYPICALLY AGAIN, BECAUSE OF IT BEING A WASTE
24 DISPOSAL ISSUE, SEWAGE SLUDGE IS REALLY FROM OUR
25 BACKGROUND WHERE WE CAME AND REGULATORY LEAPS OF GETTING

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1 PUBLIC ACCEPTANCE TO THAT SITUATION, BUT EQUALLY WELL
2 MIGHT BE AGRICULTURAL WASTE, FOOD PROCESSING WASTE, AND
3 OTHER SOURCES.

4 THIS PROCESS YOU ARE ABOUT TO SEE IS NOT
5 DEPENDENT UPON TRASH AND SEWAGE SLUDGE, ALTHOUGH OUR
6 APPROACH IS DEFINITELY TOWARD TRYING TO MERGE THOSE TWO
7 PROBLEM ISSUES WITHIN THE COMMUNITY AS A PRIVATE COMPANY
8 TO ENTER A LONG-TERM AGREEMENT ON A PERFORMANCE BASED
9 CONTRACT, HANDLE BOTH STREAMS UNDER KNOWN ECONOMICS, AND
10 COME UP WITH, ALTHOUGH WE HAVE TOTAL RESPONSIBILITY, A
11 GOOD SECURE MARKET FOR THE THINGS WE GENERATE.

12 EXCUSE ME FOR THE CLOUDINESS OF OUR SLIDES,
13 BUT THIS FACILITY, AS BILL MENTIONED, ABOUT A YEAR AND A
14 HALF AGO BECAME ASSOCIATED WITH A TRANSFER STATION UP IN
15 ST. CLOUD, MINNESOTA, ABOUT 70 MILES NORTH OF THE CITIES.
16 THIS TRANSFER STATION HANDLES APPROXIMATELY 350 TON A DAY
17 MUNICIPAL TRASH RESIDENTIAL. IN THE BACK OF THIS PLANT
18 WE'VE CONSTRUCTED OUR RECYCLING CO-COMPOSTING FACILITY
19 CURRENTLY SIZED AT 50 TON A DAY, EXPANDABLE IN THE NEXT
20 COUPLE OF MONTHS TO A HUNDRED TON A DAY. THAT RATING IS
21 BASED ON THE AMOUNT OF MUNICIPAL TRASH WE TAKE, NOT
22 COUNTING THE MUNICIPAL SLUDGE THAT'S CO-COMPOSTED.

23 THE REMAINING MATERIALS ARE COMPACTED AS
24 WOULD BE SEEN IN ANY TRANSFER STATION, TAKEN TO LOCAL
25 LANDFILL, AND IN ADDITION ANY REJECTS OUT OF OUR PROCESS.

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1 WHICH IS ABOUT 30 PERCENT, ALSO GO BACK INTO THE TRANSFER
2 STATION FOR DISPOSAL. SO WE HAVE A 70-PERCENT REDUCTION.
3 OUR PLANT SIZING, IN DEFERENCE TO THE DANO PROCESS, IN
4 THAT WE DO IN VESSEL TREATMENT, NOT SIMPLY A MIXING
5 PROCESS, EACH TUBE OF OURS IS ABOUT A 50-TON-A-DAY RATED
6 TUBE. SO THAT IF WE WERE TO CONSTRUCT A 250-TON-A-DAY
7 PLANT, WE WOULD HAVE APPROXIMATELY FIVE TUBES, AS
8 BASICALLY AS HAS BEEN PROPOSED OURSELVES, AS WELL, IN SAN
9 DIEGO.

10 YOU WILL SEE THE DIFFERENCE WILL BE THE
11 NUMBER OF TUBES. QUALITY ON THE BACK SIDE IS THE
12 IMPORTANT ISSUE. BUT I THINK TO THE POINT OF BEING
13 COMPATIBLE, A TRANSFER STATION IS THE KEY. NOT ONLY HAS
14 IT BEEN MENTIONED THAT IT'S SENSIBLE TO LOCATE THESE
15 FACILITIES AT EXISTING LANDFILLS, AT EXISTING SEWAGE
16 TREATMENT PLANTS, CERTAINLY AT EXISTING TRANSFER STATION,
17 BECAUSE BOTTOM LINE FOR THE MILLIONS OF DOLLARS THAT ARE
18 SPENT TO BUILD SOMETHING LIKE THIS, IT'S NOTHING OTHER
19 THAN A HYBRID TRANSFER STATION. IT'S SIMPLY PROVIDING A
20 GREATER VOLUME REDUCTION, IN OUR OPINION, THAN ONE MIGHT
21 GET BY SIMPLY PUTTING THE TRASH INTO A BIN AND SQUEEZING
22 IT TO HAUL OUT IN SEMIS.

23 SO WE THINK OUR SITINGS, AS WE'VE DONE
24 HERE, ARE VERY SENSIBLY DONE IN TERMS OF EXISTING OR
25 PROPOSED TRANSFER STATIONS. WE HAVE OUR OWN PICTURE OF

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1 TRASH. IT'S A PRETTY ROTTEN ONE, SO WE'LL MOVE RIGHT ON.

2 THE FIRST STEP IN THE PROCESS RIGHT OFF THE
3 TIPPING FLOOR IS PRESORT STATION WHERE BASICALLY
4 BUCKETLOADS OF TRASH RIGHT OUT OF THE BACK OF THE TRUCKS
5 ARE GOING INTO A JOCKEY BELT AND A PRESORT IS DONE IN
6 APPOSITION TO PULL OUT THE BOWLING BALLS AND CYLINDER
7 HEADS AND JACKS AND THINGS YOU KUST KNOW YOU DON'T WANT
8 TO HANDLE. THEY'RE SIMPLY TOSSED BACK OUT ON THE FLOOR
9 AND THEY GO ON TO LANDFILL.

10 NEXT STEP THROUGH THE PRESORT LINE, THEN,
11 IS INTO A BAG MILL, WHICH IS A SPLITTER. IT'S VERY
12 IMPORTANT TO REEMPHASIZE OUR NEGATIVE ATTITUDE TOWARDS
13 SHREDDING OF ANY TYPE. THIS MACHINE SIMPLY SPLITS THE
14 PLASTIC BAG, PRESENTING A HUGE PROBLEM IN MSW PROCESSING
15 UNIQUE TO THE UNITED STATES, BY THE WAY.

16 FROM THE BAG MILL, WHICH YOU SEE THE TOP
17 OF, THE ROUND DEVICE IN THE FOREGROUND IS THE TROMMEL
18 MILL, WHICH DOES A VERY IMPORTANT THING TO TRASH.
19 ANYBODY PROCESSING MUST DO SO TO PROPERLY GET INTO
20 RESOURCE RECOVERY, AND THAT IS IT CREATES A LIGHT AND
21 HEAVY FRACTION. BY VIRTUE OF HOLES IN THE SYSTEM, THE
22 MATERIAL THAT'S SMALLER 7 INCHES DROPS DOWN. STUFF THAT
23 ISN'T MOVES THROUGH IT.

24 BASICALLY, WHAT THAT CREATES FROM A LIGHT
25 FRACTION IS A REAL GOOD REMOVAL, AS YOU WILL SEE IN A



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1 MINUTE, OF THE PAPER AND PLASTIC -- FILM PLASTIC AS WELL
2 AS CONTAINER PLASTIC AND THEN THE HEAVY FRACTION BECOMES
3 ALL THE REST.

4 I'LL SHOW YOU WHAT THAT MEANS. HERE ARE
5 SORT LINES. AGAIN, THIS A 50-TON-A-DAY PLANT. ON THE
6 LEFT IS THE LIGHT FRACTION MOVING UP. AND YOU WILL SEE
7 THERE IS A COMBINATION OF PAPER, BOTH CLAY BASED
8 MAGAZINES AND NEWSPRINT, CARDBOARD THAT HASN'T GOTTEN
9 PRESORTED OUT ON THE FRONT END AND, BASICALLY, YOUR FILM
10 PLASTICS AND CONTAINER PLASTICS. OUR SORT IS DONE AT
11 THAT POINT.

12 CURRENTLY, WE MARKET -- BAIL AND MARKET
13 FILM AND CONTAINER PLASTIC. THE PAPER IS RECYCLED BACK
14 INTO THE PROCESS. OUR PLANS IN THE FUTURE AND WHERE WE
15 FEEL WE'RE VERY COMPATIBLE WITH THE BURN PEOPLE AS THEY
16 COME ON IS THAT'S OBVIOUSLY WHAT YOU WANT TO BURN IN
17 TRASH IS THE PAPER. SO WE DO HAVE A SIDE STREAM FUEL
18 SOURCE IF, IN FACT, THERE'S A USER MARKET OUT THERE FOR
19 IT THAT'S PERMITTED.

20 THE RIGHT-HAND SIDE IS THE HEAVY FRACTION.
21 YOU SEE THE GENTLEMAN DOWN THERE. THERE IS FERROUS
22 REMOVAL OF ALUMINUM. ANY RAGS ASSOCIATED AND MINOR ITEMS
23 THAT WE JUST DON'T WANT TO SEE GO THROUGH. BASICALLY,
24 OUR PRODUCT LINE, FILM PLASTIC, CONTAINER PLASTIC,
25 CARDBOARD, NEWSPRINT CURRENTLY RECYCLED. TEXTILE RAGS.

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1 FERROUS AND ALUMINUM. THOSE ARE WHAT WE'RE CHASING.

2 THOSE COMPRISE, BY THE WAY, ABOUT 15
3 PERCENT OF THE TOTAL THROUGHPUT VOLUME OF THE PLANT.

4 AS WE COME UP AND WE'VE MECHANIZED THE
5 SYSTEM, IN THE LOAD POINT WE HAVE WEIGH BELTS. YOU WILL
6 SEE IN A LITTLE BIT METERING LOCATIONS TO WHERE WE KNOW
7 BY VOLUME AND WEIGH HOW MUCH TRASH WE'RE HANDLING AFTER
8 SORTING SO THAT WE ADD A PROPER AMOUNT OF MUNICIPAL
9 SLUDGE, BOTH CONTROL CARBON NITROGEN AND PERCENT
10 MOISTURE.

11 CONVEYOR BELTS MOVE THE MATERIAL UP. I
12 THINK THIS SLIDE IS VERY INSTRUCTIVE. ON THE LEFT YOU
13 SEE THE LIGHT FRACTION LINE JOINING THE HEAVY FRACTION
14 LINE ON THE RIGHT. THIS IS THE BASIC BREAKDOWN OF ANY
15 MUNICIPAL GARBAGE HANDLING SYSTEM. IT'S CRITICAL THAT IT
16 ACCOMPLISH THAT TO BE ABLE TO DIVERT PRODUCT, ESPECIALLY
17 QUALITY COMPOST.

18 HERE'S A PICTURE OF A FEED LINE THAT METERS
19 OUR SEWAGE SLUDGE IN. WE'RE USING A 4 TO 5 PERCENT
20 MATERIAL, ALTHOUGH WE'LL BE MOVING UP INTO THE 40-PERCENT
21 RANGE AND CONTROLS HERE INDICATE ON A WEIGHT MEASURE
22 BASIS HOW WE METER OUR PROPER COMBINATION OF CARBON AND
23 NITROGEN SOURCE TO GET THE PROPER FEED IN THE VESSEL.

24 SKIPPING FOR A SECOND FROM THE RECYCLE AREA
25 THAT YOU SAW THEN, WE ALSO PROCESS, BALE, WEIGH, AND PUT

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1 OUT ON A COMMODITY BASIS THE VARIOUS PRODUCTS I
2 DISCUSSED.

3 WE METER THAT OUT. PICTURES OF CONTAINER
4 PLASTIC. BILL, HOLD IT FOR A MINUTE. ON THE CONTAINER
5 PLASTIC, PARTICULARLY, THE MARKET IS WAY BEHIND THE
6 SUPPLY. THERE ARE VERY FEW INDUSTRIES THAT ARE WILLING
7 TO TAKE NONSEGREGATED, AT LEAST BY COLOR, IF NOT BY
8 DENSITY, CONTAINER PLASTIC. COTTAGE INDUSTRIES ARE NOW
9 JUST STARTING. WE FEEL IN A YEAR THERE'LL BE VERY SOLID
10 INDUSTRIES OUT THERE WILLING AND ABLE TO TAKE THE
11 CONTAINER PLASTIC TO MAKE NONSTRUCTURAL BUILDING FORMS.
12 WE HAVE ONE SUCH PLANT BEING STARTED IN MINNESOTA THAT
13 WE'RE VERY EXCITED ABOUT.

14 THE ALUMINUM INDUSTRY, OF COURSE, IS THE
15 BREWING INDUSTRY. IN THE RECYCLING OPERATION THAT'S
16 HEAVILY DEPENDENT UPON ALUMINUM ECONOMICS, THEY GET VERY
17 NASTY SURPRISES. THE CURBSIDE PROGRAMS AND THE RECYCLING
18 ACTIVITIES ALLOW MUCH OF THAT STREAM TO BE DIVERTED,
19 WHICH IS, UNFORTUNATELY, THE HIGH-PAY STREAM IN THE
20 RECYCLING ACTIVITY BEFORE IT EVER GETS TO A TRANSFER
21 STATION. SO COMPANIES THAT ARE LOOKING TOWARD HIGH
22 REVENUE OF THEIR RECLAIMABLES GET FOOLED VERY RAPIDLY.
23 WE DO PULL SOME ALUMINUM.

24 MR. HEALEY: WE'RE ALSO VERY EXCITED ABOUT THE
25 FILM PLASTIC THAT IS STARTING UP, NOT JUST THE CONTAINER

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1 PLASTIC.

2 MR. BUTLER: THAT'S EXACTLY RIGHT.

3 MR. HEALEY: AS THEY --

4 MR. BUTLER: SO THERE'S A LOT OF INDUSTRIES NOW
5 NOT GETTING SO PICKY ABOUT THE STACK OF RECYCLED MATERIAL
6 THEY NORMALLY RECEIVE. IT'S BEEN A PROBLEM WITH PAPER
7 RECYCLING INDUSTRY, IN THE RAG TEXTILE INDUSTRIES.
8 THERE'S A LOT OF PEOPLE TALKING ABOUT RECYCLING AND USING
9 RECYCLED PRODUCT INVENTORY, BUT DAMN FEW DOING IT WHEN
10 COMES OUT OF THE GARBAGE SOURCE BECAUSE IT IS TAINTED.
11 IT'S DIRTY; IT'S NOT UNIFORM AND NOT SEGREGATED AS ONE
12 YOU WOULD LIKE TO SEE IT.

13 TEXTILES, MAJOR SOURCE. WE NOW BALE THOSE
14 PRODUCTS. CURRENTLY, WE HAVE NO TEXTILE MARKET. WE GO
15 THROUGH THE DRILL. WE THINK IT'S IMPORTANT. WE NEED OUR
16 RECOVERY; AND AS WE MIGHT FIND AN OUTLET FOR THIS THROUGH
17 GOODWILL ON A GIVE-AWAY PROGRAM, WE WILL CONTINUE TO DO
18 SO. OTHER THAN THAT, UNFORTUNATELY, FOR THIS STREAM IN
19 MINNESOTA CURRENTLY, IT WILL GO BACK TO THE LANDFILL IN
20 BALED FORM. WE ARE AGRESSIVELY MARKETING THESE VERY
21 MARGINAL PRODUCTS TO TRY TO SHOW AND DEVELOP, IF ON A
22 NO-PAY BASIS, OUTLETS FOR IT.

23 OUR CURRENT MARKETS THAT WE HAVE INCLUDE
24 CONTAINER PLASTIC, CARDBOARD, AND ALUMINUM. THAT'S ALL
25 WE CAN SELL AT THIS POINT IN TIME. BUT WE DO HAVE HIGH

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1 HOPES IN THE FUTURE.

2 MR. HEALEY: THAT'S WHY THE BALES ON THE RIGHT
3 THERE THAT ARE COVERED ARE THE BALED FILM PLASTIC, AND
4 THAT PLANT IS STARTING UP THIS SPRING. SO WE ARE --

5 BOARD MEMBER BREMBERG: WHERE?

6 MR. HEALEY: IT'S IN PAYNESVILLE. THEY'VE GOT
7 AN OFFICE THERE, BUT IN --

8 MR. BUTLER: WITHIN MILES.

9 MR. HEALEY: WITHIN MILES, AND THEY ARE A
10 COMPANY THAT MANUFACTURES THEIR OWN PRODUCTS AND HAVE FOR
11 SEVERAL YEARS AND HAVE THEIR OWN MARKETS FOR THEIR LAWN
12 AND TURF PLASTIC PRODUCT MANUFACTURERS AND MARKETERS, AND
13 THEY'RE GOING TO TAKE THIS INTO THEIR LINE. THERE ARE
14 TWO OTHER COMPANIES THAT I'M AWARE OF OR WE'RE AWARE OF
15 THAT HAVE ALREADY DONE PILOT TESTS ON PROCESSING
16 POSTCONSUMER FILM PLASTIC AND HAVE BEEN SUCCESSFUL.

17 AND ESSENTIALLY THEY'RE LOOKING FOR A
18 MARKET. THEY ALL HAVE "X" NUMBER OF DOLLARS OF CAPITAL
19 TO THROW IN TO START UP. AND, OKAY, WHERE IS THE
20 MATERIAL? HOW FAST IS THE PAYBACK GOING TO BE?

21 MR. BUTLER: AS THESE PLANS PROLIFERATE, THESE
22 INDUSTRIES MUST COME ABOUT, AND I THINK THEY'LL BE DRIVEN
23 ECONOMICALLY TO DO SO. IF, IN FACT, THE RECYCLING
24 COMPOSTING INDUSTRY DOESN'T RESPOND AND BE A SUPPLEMENT
25 TO THE MASS BURN COMPANIES, THOSE INDUSTRIES PROBABLY

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1 WON'T HAVE THAT INCENTIVE. OBVIOUSLY, WHEN YOU GET THE
2 REQUEST OF THE BOARD TO ENCOURAGE EVEN MORE SPECIFICALLY
3 THE USE OF PUBLIC AGENCY CONSUMPTION OF RECYCLED PRODUCT
4 MATERIALS AS A TAX INCENTIVE FOR OTHERS. IT IS HIGHLY
5 BENEFICIAL AND HELPFUL UNDERSTANDING THAT SOMETIMES THE
6 SPECIFICATIONS --

7 MR. HEALEY: AS SOME OF THESE MANUFACTURERS CAN
8 IDENTIFY A KNOWN STREAM OR THEY KNOW THAT "X" NUMBER OF
9 TONS OF FILM PLASTIC ARE GOING TO BE AVAILABLE ON A
10 DAILY, WEEKLY, THEY CAN GEAR THEMSELVES TOWARD IT,
11 ESPECIALLY, ALSO, IF THEY KNOW THE PERCENT CONTAMINANTS,
12 THEY CAN ADJUST THEIR PROCESS FOR THE AMOUNT NEEDED AND
13 ARE WILLING -- THIS ONE COMPANY IS WILLING TO RELOCATE
14 FACILITIES TO CONTINUE THE MARKETING OF IT.

15 MR. BUTLER: MOVING ON AND JUST SPENDING A BRIEF
16 TIME HERE, OUR VESSELS, EACH COMPONENT IS 12-FOOT
17 DIAMETER, 120-FOOT LONG, THREE-CHAMBER SYSTEM. RESIDENCE
18 TIME OF EACH DAY'S 50 TON BATCH IS A THREE-DAY TOTAL
19 CYCLE. AND THE REASON THAT WE RUN IN THIS PROCESS IS TO
20 MAINTAIN A VERY HIGHLY ACTIVE BIOLOGICAL COMMUNITY WHICH
21 COMES VERY CLOSE TO MEETING THE FEDERAL REQUIREMENT OF 72
22 HOURS RESIDENCE TIME IN VESSEL AT 55 DEGREES C OR ABOVE
23 TO BE DEFINED AS A PROCESS TO FURTHER REDUCE PATHOGENS.
24 WHICH IS AN EPA REQUIREMENT.

25 WE COMPLETE THAT PROCESS IN OUR AREA. BUT



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1 WE HAVE A VERY ACTIVE BIOLOGICAL COMMUNITY. OUT TYPICAL
2 TEMPERATURE IN OUR FIRST CHAMBER IS ABOUT 125 TO 30 F, IN
3 THE SECOND CHAMBER 150 F, AND IN THE THIRD CHAMBER IT
4 TAILS OFF TO ABOUT 145. WE TRY TO KEEP OUR BUGS VERY
5 HAPPY AND USE THIS AS AN ACTUAL BIOLOGICAL TREATMENT
6 VESSEL SO THAT THE PRODUCT, AS WE DOWNLOAD AFTER EACH
7 THREE-DAY PROCESS DAILY, BUT AS EACH PATCH IS MOVED
8 THROUGH THE THREE-DAY CYCLE, WE HAVE A VERY ACTIVE
9 BIOLOGICAL QUICK START ON THE PROGRAM FOR FINAL CURE,
10 HELPING US VASTLY IN OUR PRODUCT QUALITY.

11 MR. HEALEY: SO AS TO DISTINGUISH, IT'S NOT JUST
12 A MIXING AND BLENDING MEDIUM TO DO WIND ROW COMPOSTING.
13 YOU ARE, IN FACT, KICKING THE PROCESS RIGHT THERE. YOU
14 ARE DOING, SAY, 50 PERCENT OF THE COMPOSTING IS OCCURRING
15 IN THAT VESSEL BEFORE IT COMES OUT.

16 MR. BUTLER: REALLY, TO HELP MAINTAIN AEROBIC
17 STATE, AND ODOR IS STILL AN ISSUE. I DON'T CARE WHERE
18 YOU ARE LOCATED. AS THE MAN FROM DANO SAID, IT'S
19 SURPRISING AT THESE FACILITIES HOW LOW THE ODOR IS, BUT
20 THAT IS ONLY BECAUSE IT'S BEING KEPT AEROBIC. WE HAVE
21 QA.

22 ONE OF THE FEATURES OF THE PROCESS THAT'S
23 VERY IMPORTANT IS A HIGH DEGREE OF RECIRCULATION OF CO2,
24 HEAVY CO2 LADEN GAS. I WON'T GO INTO IT, BUT IT'S
25 ANOTHER THING THAT KEEPS THE BUGS VERY HAPPY. HIGH



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1 MOISTURE AND HIGH CO2 GAS MAKES FOR HAPPY BUGS. HAPPY
2 BUGS EAT FASTER.

3 MR. HEALEY: THIS IS COMING OUT OF THE CHAMBER
4 THREE AND IS RECIRCULATED, GOES INTO CHAMBER ONE. SO
5 THEY GET AS FAST A START INTO BUG HEAVEN AS POSSIBLE.

6 MR. BUTLER: NOW, AS WE DOWNLOAD, THE FIRST STEP
7 IN THE DOWNLOAD IS TO GO THROUGH A TROMMEL SCREEN AGAIN.
8 THIS ONE'S AN INCH AND A HALF. ANYTHING THAT DOESN'T
9 PASS THAT, SOMETHING THE GUYS ON THE PICKING LINE MISSED
10 OR WE JUST DON'T WANT IN OUR PRODUCT, THEY MOVE DIRECTLY
11 TO THE TIP FLOOR AND ON THE TRUCKS OUT TO THE LANDFILL,
12 MAKING UP A PART OF THE TOTAL 30 PERCENT REJECT THAT WE
13 DEAL WITH.

14 IN ADDITION, OUTSIDE, WE HAVE AN INNOCULANT
15 BASE -- AN INNOCULANT REINTRODUCTION SYSTEM IN EFFECT
16 WHERE WE CAN RUN RECYCLED COMPOST OR MIDLINGS FROM OUR
17 SCREEN PLANT BACK IN THROUGH THE PROCESS WHERE, IF WE
18 WANT TO, WE CAN INTRODUCE DRY SLUDGE CAKE, AGRICULTURAL
19 WASTE, FOOD PROCESSING WASTE, OR OTHER MATERIALS THAT
20 DON'T HAVE TO GO BY THE GUYS. SO IT'S A DUAL SYSTEM WITH
21 VARIOUS FEED POINTS TO GIVE US FLEXIBILITY IN THE
22 COMMUNITY.

23 MR. HEALEY: WELL, FOR INSTANCE, WE'LL BE
24 RUNNING A PILOT STUDY ON YARD WASTE FOR ANOTHER COUNTY IN
25 THE METRO AREA, AND A GREAT DEAL OF IT WILL BE FED RIGHT



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1 THROUGH THAT SYSTEM. THERE'LL BE NO NEED FOR A FRONT-END
2 SEPARATION. SO IT WILL GO THROUGH THERE AND THAT
3 BYPASSES THAT WHOLE FRONT-END AREA.

4 TO THE LEFT OF THIS PICTURE WHAT WE DON'T
5 HAVE A PICTURE OF WHERE OUR SLUDGE IS STORED WHEN IT
6 COMES FROM THE WASTEWATER TREATMENT PLANT. WE HAVE A
7 30,000-GALLON INSULATED TANK, AND THAT'S WHERE IT'S
8 STORED AND THEN METERED INTO THE BUILDING ON DEMAND.

9 BOARD MEMBER ARAKALIAN: EXCUSE ME. WHEN YOU
10 MENTIONED YARD WASTE TYPE OF THING, YOU KNOW, FOR
11 COMPOSTING, IS THAT AS GOOD A QUALITY OF COMPOST, SAY,
12 FOR, YOU KNOW, NUTRITIONAL VALUE AS THE MUNICIPAL WASTE
13 TYPE?

14 MR. BUTLER: IN AND OF ITSELF ABSOLUTELY NOT.
15 YARD WASTE --

16 BOARD MEMBER ARAKALIAN: IT DOESN'T HAVE AS MUCH
17 NUTRIENT.

18 MR. BUTLER: NO. YOUR ORGANIC END TENDS TO BE
19 LOWER. ONE OF THE PROBLEMS, AGAIN, WITH THIS
20 CARBON/NITROGEN RATIO IS WITH ANY STREAM YOUR RIGHT GOOD
21 MIXTURE OF ABOUT 40 TO 1 TO START, CARBON BASE VERSUS
22 NITROGEN BASE. TYPICALLY, A YARD WASTE PROGRAM HAS TWO
23 PHASES TO IT. ESPECIALLY IN THE NORTHERN COUNTRY, THEIR
24 FALL PROGRAM IS A VERY DRY NONNITROGEN BASED PROGRAM.
25 YOUR SPRING PROGRAM, OBVIOUSLY, WITH CUTTINGS AND SO

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1 QUITE A BIT DIFFERENT IN MOISTURE CONTENT IS DIFFERENT.

2 A SYSTEM HAS TO BE FLEXIBLE TO TAKE IN BOTH
3 COUNTS, BUT A PROGRAM BYPASSING, BASICALLY, THE
4 RECYCLING, RUNNING AN IN VESSEL QUICK START WITH THE
5 RIGHT BIOLOGICAL COMMUNITY CAN CREATE VERY UNIFORM AND
6 CONSISTENT PRODUCT. IN FACT, A YARD WASTE SYSTEM,
7 CO-COMPOSTED SYSTEM, OPERATES AT ABOUT HALF THE TIP FEE
8 THAT A MUNICIPAL WASTE COMPOST SYSTEM DOES SIMPLY BY
9 REMOVING THE CAPITAL ON THE FRONT END AND A VERY
10 COMPARABLE PRODUCT.

11 MR. HEALEY: AND, IN FACT, HAS THE POTENTIAL TO
12 BE THE MOST MARKETABLE IN TERMS OF TO GET TO THE HIGHEST
13 VALUE ADDED. THE MARKETING ISSUE BECOMES VERY COMPLEX
14 BECAUSE YOU ARE NOT DEALING WITH A MONOLITHIC THING.
15 YOU'RE DEALING WITH A LOT OF DIFFERENT THINGS. YOU HAVE
16 MORE FLEXIBILITY WITH YARD WASTE PROPERLY DONE OR WHAT
17 YOU MIX WITH IT AND AS TO WHERE IT GOES.

18 MR. BUTLER: ONE OF THE BIGGEST PROBLEMS IN
19 COMMUNITIES DEALING WITH YARD WASTE CURRENTLY AND MANY
20 STATES HAVE BANNED YARD WASTE FROM LANDFILLS. THERE'S A
21 TREMENDOUS ODOR GENERATED DURING A COMPOSTING PROCESS.
22 AGAIN, THE IN VESSEL PROCESS IS FAR SUPERIOR BY KEEPING
23 IT AEROBIC. IT DOES REDUCE A LOT OF ODOR.

24 HERE IS A CURE PAD, TYPICAL OF ANY CURE
25 PAD. WE RUN ABOUT A 14-DAY CYCLE, TURN THE MATERIAL

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1 THREE TIMES. WE DO NOT USE FORCED AIR. INSTEAD, THE
2 MIDLING FRACTION GIVES US OUR ANNUAL AIRSPACE, AND WE
3 MAINTAIN A VERY LOW ODOR, VERY ACTIVE COMMUNITY. THE
4 AVERAGE TEMPERATURES RUNS ABOUT A HUNDRED FORTY THROUGH
5 THE CURE PERIOD, AND YOUR REDUCTION OF ALL THE SOLIDS
6 TELLS YOU WHEN YOU ARE DONE COOKING.

7 BOARD MEMBER ARAKALIAN: WHAT YOU DO, REALLY,
8 WHEN YOU HAVE THOSE PILES IS JUST TILL TO REGENERATE
9 THEM.

10 (SIMULTANEOUS SPEAKERS.)

11 MR. BUTLER: THIS DEVICE IS CALLED A ROYER
12 (PHONETIC) AERATOR SHREDDER. AND WHAT IT, IN EFFECT,
13 DOES BY RE-TURNING THE PILES IS REALLY MASS RATES REMOVES
14 SOME OF THE PLASTICS AND OBJECTIONABLES AND GIVES YOU THE
15 AIR INTRAINMENT THAT YOU NEED TO FINISH A PRODUCT.

16 MR. HEALEY: THIS ROYER IS LIKE A VERY GOOD
17 MIXER. THEY HAVE GUARDS OR TEETH ON IT, SO, FOR US, THE
18 TERM "SHREDDER" IS A MISNOMER BECAUSE IS PASSES THROUGH
19 THAT. WE USE IT AS AN AERATOR.

20 MR. BUTLER: WE CAN MOVE PAST THAT ONE. THE
21 STEAM YOU CAN SEE COMING OFF IS INDICATIVE OF THE HEAT.
22 THE FOREIGN MATERIAL THAT IS PRESENT IS THEN DEALT WITH
23 FIRST ON A THREE-QUARTER INCH SCREEN, AND THE UNDER
24 THREE-QUARTER MATERIAL GOES OUT TO SILVACULTURE AND
25 HORTICULTURAL APPLICATIONS. IN MINNESOTA. PARTICULARLY.



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1 THE NURSERY BUSINESS IS A VERY ACTIVE BUSINESS, CHRISTMAS
2 TREE, ETC., AND THIS PRODUCT IS EXTREMELY DESIRABLE. FOR
3 THE UNDER HALF-INCH MATERIAL FINE SCREEN, YOU GET MORE
4 INTO YOUR ROADSIDE RECLAMATION AND HORTICULTURAL USE.

5 AND IT'S IMPORTANT, I THINK, TO RECOGNIZE
6 AND YOU FOLKS BROUGHT UP VERY WELL BEFORE, TO CONSIDER
7 THAT A MARKET IS GOING TO BE AVAILABLE FOR THESE PRODUCTS
8 WITH THEIR WASTE DERIVED REPUTATION BEHIND THEM, ANYWHERE
9 FROM TWO YEARS FROM START IS, IN OUR OPINION, A VERY BAD
10 ASSUMPTION TO MAKE BOTH POLITICALLY AND ECONOMICALLY.

11 THE NEED TO REPROVE, THE NEED TO REDEFINE
12 WASTE AS ANYTHING ELSE, BE IT MICRONUTRIENTS, BE IT SOIL
13 AMENDMENT, BE IT ANYTHING WITH A DECENT REPUTATION IS A
14 CONFIDENCE-BUILDING SITUATION. IT REQUIRES, IN OUR
15 EXPERIENCE, HAVING INVOLVEMENT WITH THE AGRICULTURAL AG
16 EXTENSION PROGRAMS, THE UNIVERSITIES, THE SOIL SCIENCE
17 DEPARTMENTS. A FARMER IN STEARNS COUNTY IS GOING TO PAY
18 NO MORE ATTENTION TO THIS MATERIAL AND ITS BENEFITS IF HE
19 LIVES IN BENTON COUNTY THAN HE WOULD IF IT WAS ON ANOTHER
20 PLANT.

21 THERE IS A LOT OF FEAR OUT IN THE
22 COMMUNITY; AND, CERTAINLY, ONE OF THE GREATEST CHALLENGES
23 TO PUBLIC RELATIONS PORTION OF A CURBSIDE PROGRAM IS THAT
24 REEDUCATION PROCESS. AND IN OUR EXPERIENCE IT'S A
25 TWO-YEAR DEVICE, AND IT'S A MISTAKE, FIRST, TO CONCLUDE

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1 THAT THE MATERIAL WILL BE AN ECONOMIC CONTRIBUTION IN THE
2 FIRST TWO YEARS.

3 WE ATTEMPT TO GET IT OUT IN THE COMMUNITY,
4 AS IN THIS CASE, FOR TRANSPORTATION COST, AND THEN AS
5 IT'S PROVEN AND AS IT'S ACCEPTED, MOVE THE MATERIAL UP TO
6 THE COMPETITIVE RANGE WITH PEAT AND TOP SOIL. THEN AS IT
7 MAKES SENSE, START DOING SOME VALUE ADDED PRODUCT MIXES,
8 VALUE ADDED PRODUCT BLENDS, AND WORK ON INTO THE HIGHER
9 REVENUE MARKETS.

10 I THINK IT'S VERY IMPORTANT, YOU KNOW, THE
11 KEY QUESTION: WHERE DOES THE STUFF GO? IT ISN'T GOING
12 TO GO ANYWHERE IN THE LANDFILL. IT NEEDS TO BE
13 APPROACHED WITH A CAREFUL AND LONG-TERM COMMITMENT GOAL
14 UNLESS, IN FACT -- AND ANOTHER REQUEST OF THE BOARD MIGHT
15 BE IT'S OBVIOUS THAT SOME CHANGES POLITICALLY IN THE
16 PUBLIC'S USE SPECIFICATIONS OF CALTRANS AND OTHER PUBLIC
17 USING AGENCIES, BE THEY COUNTY, CITY, OR REGIONAL, ARE
18 VERY BENEFICIAL.

19 THERE ARE -- CALTRANS CURRENTLY TODAY HAS A
20 SPECIFICATION FOR THE USE OF COMPOST DERIVED PRODUCT. IT
21 ISN'T REALLY A SPECIFICATION. IT SAYS THAT COMPOST CAN
22 BE USED AS LONG AS MEETS THE SPECS OF VIRGIN MATERIAL.
23 ALL COMPOST, WASTE DERIVED COMPOST, OR AGRICULTURAL WASTE
24 COMPOST IS NOT THE SAME AS VIRGIN MATERIAL AND CARE NEEDS
25 TO BE TAKEN AND SOME WORK NEEDS TO BE DONE TO REDEFINE

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1 THE SPECIFICATIONS SO THESE PRODUCTS, AS LONG AS THEY ARE
2 SAFE AND UNIFORM IN CONSISTENCY, HAVE A MORE OPEN
3 ACCEPTANCE AND SIMPLY BE EQUAL TO VIRGIN MATERIAL.

4 IT'S THE SAME AS OUT IN THE PLASTICS AND
5 OTHER RECYCLING INDUSTRIES. IF YOU HAVE YOUR CHOICE,
6 UNLES YOU'RE AN ENVIRONMENTAL ADVOCATE OF SOME SORT, THE
7 NEW PRODUCT OUT OF VERGIN MATERIAL AND AN EQUAL SPEC
8 PRODUCT, BUT OUT OF A WASTE DERIVED MATERIAL FOR THE SAME
9 MONEY, NINE PEOPLE OUT OF TEN WILL PICK THAT VIRGIN
10 PRODUCT. WE'RE TRYING TO CHANGE; WE'RE ALL TRYING TO
11 CHANGE, BUT IT'S A REALITY.

12 BOARD MEMBER ARAKALIAN: YOU THINK THAT'S BAD.
13 OUR OWN STATE REFUSES -- IT HAS IN THE PAST -- TO BUY
14 COMPOSTED MATERIALS WHEN THEY HAVE BEEN COMPARABLE AND
15 SUFFICIENTLY NUTTRIENT VALUES AND ALL THAT. AND IF YOU
16 CAN'T GET THE STATE, WHO SHOULD BE PIONEERING THINGS LIKE
17 THIS BECAUSE THEY USE SO MUCH OF IT, TO COOPERATE AND TO
18 LEAD THE FIELD IN USING IT, CAN YOU IMAGINE HOW DIFFICULT
19 IT MIGHT BE FOR PRIVATE ENTERPRISE. MAYBE THEY'LL BE
20 BETTER. THEY MIGHT BE MORE SENSIBLE THAN THE
21 BUREAUCRACY.

22 MR. BUTLER: YOU TAKE THOSE HUNGRY GREEDY PEOPLE
23 OUT THERE IN THE PRIVATE SECTOR --

24 BOARD MEMBER ARAKALIAN: I SAID THAT FIRST. I'M
25 STARTING TO THINK THEY MIGHT BE -- THEY SHOULD BE MORE

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1 SENSIBLE THAN THOSE RIDICULOUS BUREAUCRATS WHO WON'T USE
2 IT.

3 MR. BUTLER: NO DOUBT ABOUT IT. AS PUBLIC
4 AGENCIES CAN BE PUSHED AND NOW CERTAINLY ALL THE FEDERAL
5 MANDATES THAT ARE COMING DOWN FOR FEDERAL USE OF WASTE
6 DERIVED PRODUCTS IS PROBABLY COMING ALONG.

7 NOT TO BELABOR, THE PRODUCT IS AS YOU SEE
8 IT. WE GENERATE APPROXIMATELY 50 PERCENT OF OUR PLANT
9 IMPORTED PRODUCT OUT, ANOTHER 15 PERCENT IS RECYCLED
10 PRODUCTS, THE REMAINING 10 PERCENT IS VOLATILIZED
11 MOISTURE AND GASES, WHICH ARE CONTROLLED THROUGH
12 RECYCLING THE VESSEL. AS I SAID, ABOUT 30 PERCENT THEN
13 GOES BACK TO LANDFILL.

14 WHAT WE'RE OFFERING, BASICALLY, IS A
15 PACKAGE DEFINING THE SYSTEM ON SIZING FROM 50 TO 250 TON
16 A DAY AS A BASIC DECENTRALIZED TREATMENT PROCESS WITH THE
17 HEAVY INDUSTRY NATURE OF IT BEING, HOPEFULLY, LOCATED
18 CLOSE TO TRANSFER STATIONS OR EXISTING LANDFILLS AS A
19 FIRM CONTRACT PRICE. FUEL LABOR, ETC. DOL STANDARDS AS
20 THEY MAYBE. OUR TIP FEES WILL RANGE, AND TO BE SPECIFIC,
21 IF WE'RE TALKING ABOUT A \$10 A TON REJECT FEE HERE IN
22 THIS PART OF THE COUNTRY. IN TODAY'S DOLLARS, OUR TOTAL
23 TIP FEE RUNS ABOUT \$42 A TON. THAT'S BASED UPON ABOUT A
24 \$45,000 A TON DESIGN CAPACITY COST, WHICH WE BEAR, AND
25 FOR THAT WE WOULD REQUEST A MINIMUM OF A TEN-YEAR

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1 CONTRACT.

2 MR. HEALEY: THAT'S PRESUMING NO VALUE FOR THE
3 SLUDGE.

4 MR. BUTLER: RIGHT. THERE'S TWO IMPORTANT
5 QUALIFICATIONS ON THAT. THAT PREASSUMES NO INITIALLY
6 ESTABLISHED VALUE FOR THE COMPOST OR THE RECYCLED
7 PRODUCTS. WE ARE VERY HAPPY TO WORK ARRANGEMENTS AND
8 HAVE DONE SO IN MINNESOTA AS THEN THAT VALUE IS CREATED,
9 THERE'S A SHARING RELATIONSHIP BETWEEN THE PUBLIC SECTOR
10 AND THE PRIVATE SECTOR TO TAKE THAT NET ADDED REVENUE AND
11 SPLIT IT TO KEEP EITHER THE TIPPING FEE STABLE,
12 INFLATIONARY INCREASES OR SUBSTANTIAL ENOUGH TO REDUCE
13 THE TIPPING FEES.

14 UNLESS IN OUR OPINION THESE ARE APPROACHED
15 ON A REALISTIC ECONOMIC SENSE, THEY'RE GOING TO FAIL.
16 AND, TRUTHFULLY, THERE HAVE BEEN TOO MANY FAILURES IN THE
17 WASTE PROCESSING MARKET OVER THE YEARS IN THIS COUNTRY
18 ALREADY AND WE'VE ALREADY TO BATTLE. WE PREFER NOT TO DO
19 A PLANT THAN TO BUY INTO ANOTHER ONE THAT IS SO MARGINAL
20 ECONOMICALLY IT HAS A CHANCE TO GO BELLY UP.

21 JUST TO TRY TO BE A LITTLE MORE SPECIFIC,
22 IF I COULD, THAT'S KIND OF WHERE OUR ECONOMICS ARE. IF
23 WE DON'T SEE A COMMUNITY WHERE THE TIP FEES ARE IN THE
24 RANGE OF \$30 A TON OR VERY SOON TO BE THERE, THE
25 COMMUNITY IS NOT READY FOR US.

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1 BOARD MEMBER ARAKALIAN: I'M JUST FINDING OUT
2 SOMETHING. YOU ARE NOT JUST MANUFACTURERS OF A SITE, BUT
3 OPERATORS OF THE SITE?

4 MR. HEALEY: WE'RE WASTE PROCESSORS. THAT'S
5 WHAT WE DO. WE'LL COME IN AND DO THE WHOLE THING IF YOU
6 WANT TO CALL IT CRADLE TO GRAVE, IF YOU'RE FAMILIAR WITH
7 THAT.

8 BOARD MEMBER ARAKALIAN: I UNDERSTAND. THEN YOU
9 ACTUALLY WILL OPERATE THE FACILITY?

10 MR. HEALEY: THAT'S CORRECT. WE BELIEVE PROCESS
11 CONTROL. YOU CAN HAVE AS MANY WIDGETS AND PIECES OF IRON
12 AND GREAT IDEAS AS YOU WANT, BUT IF YOU DON'T HAVE THE
13 PROCESS CONTROL, ALL WE'RE GOING TO DO IS PROMOTE, IN OUR
14 VIEW, MORE FAILURE AT THIS POINT IN TIME. MAYBE FIVE OR
15 TEN YEARS DOWN THE ROAD, THAT WILL BE A MOOT POINT, BUT
16 IT ISN'T NOW.

17 CHAIRMAN GALLAGHER: ONE OF THE THINGS THAT
18 OCCURS TO US HERE, AND I DON'T THINK EITHER OF YOU HAVE
19 SPECIFICALLY TOUCHED ON IT. HOUSEHOLD HAZARDOUS WASTE IS
20 AN EXTREMELY IMPORTANT, TIMELY, AND DECISIVE SUBJECT.
21 AND YOU INDICATED THE HEAVY FRACTION THAT YOU GET OUT TO
22 INCLUDE STEEL AND ALUMINUM, BUT YOU DIDN'T SAY ANYTHING
23 ABOUT LEAD, CADMIUM, AND THE COMPONENTS OF ACID IN
24 CADMIUM BASED BATTERIES. THINGS WHICH ARE EXTREMELY
25 IMPORTANT AND VERY, AS I SAY HIGHLY, INCISIVE HERE.

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1 DO YOU HAVE ANY COMMENTS ON THAT, HOW YOU
2 HANDLE IT?

3 MR. BUTLER: YES, I THINK, TOO, FROM A PRACTICAL
4 POINT AGAIN -- I'M NOT TRYING TO BE SUPERFICIAL -- AS
5 MATERIAL IS COMINGLED INTO A GARBAGE PACKER ON CURBSIDE,
6 PUTTING A GUY'S BATTERY OUT OF HIS CAR AND OTHER
7 METAL-BASED PROBLEMS THAT MIGHT COME IN FROM SOUP TO
8 AEROSOL CANS, HOUSEHOLD WASTE, CLEANERS, ETC., OBVIOUSLY
9 THERE IS NO WAY TO BE ABLE TO ENSURE REMOVAL, EVEN IF NOT
10 A HUNDRED PERCENT, VERY HIGH PERCENT OF THAT MATERIAL AS
11 IT'S THEN DUMPED WHEREVER IT'S GOING TO BE DUMPED TO BE
12 PROCESSED.

13 CERTAINLY, SHREDDING IT UP LOSES MORE OF A
14 CHANCE OF THE OBVIOUS THAN LEAVING IT WHOLE AS WE DO. WE
15 ATTEMPT TO AND HAVE TRAINED OUR PERSONNEL AT THE PRESORT
16 STATION ON THE TIP FLOOR TO SPOT THOSE ITEMS AND THEY'RE
17 PUT ASIDE AND SEGREGATED AND PROPERLY MANIFESTED OUT FOR
18 DISPOSAL UNDER RCRA LAW.

19 THE REALITY IS, HOWEVER, THAT WE'RE GOING
20 TO MISS THINGS. AND OUR ONLY SAFEGUARD IS TWOFOLD IN
21 WHAT THE EFFECT ON THE FINAL PRODUCT MIGHT BE. THE FIRST
22 IS THE COMINGLING OF A VERY CAREFULLY CONTROLLED FEED
23 STREAM WHICH IS ANALYZED IN A LONG-TERM PROCESS OF
24 APPROXIMATELY TEN TO ONE DILUTION, TALKING ABOUT WEIGHT
25 OF GARBAGE VERSUS WEIGHT OF SLUDGE OR NITROGEN-BASED

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1 SOURCE, WHATEVER THAT MAY BE, HEAVILY DILUTES THOSE
2 FACTORS.

3 IN ADDITION, THE ONLY REAL WAY, IN TERMS OF
4 OUR KNOWLEDGE, TO CONTROL THE REMAINDER OF WHAT GETS
5 THROUGH IS A REAL GOOD QUALITY CONTROL PROGRAM ON THE
6 COMPOST BEFORE IT LEAVES THE PLANT. AND TO THAT END,
7 WHAT WE DO IN GUIDANCE BY THE STATE HEALTH DEPARTMENT IS
8 TO DO A VERY RIGID COMPOSITE SAMPLING PROGRAM, TRY TO
9 PICK UP SPIKES AS THEY MIGHT BE, CONFORM TO METALS LIMITS
10 WITHIN A VERY SAFE RANGE OF EP TOX LIMITS AS THERE MAY BE
11 AND, IN FACT, FIND OURSELVES ALMOST NONDETECTABLE IN MOST
12 CASES BY THE TIME WE GET TO THAT PRODUCT.

13 THE ANSWER IS NOT SIMPLE. AND, CERTAINLY,
14 I DON'T THINK YOU WILL FIND A PROCESSING FACILITY THAT
15 CAN GIVE ANY GUARANTEES. THE OBVIOUS PLACE, IN MY
16 OPINION, TO DEAL WITH HOUSEHOLD HAZARDOUS WASTE IS
17 EXACTLY WHAT MOST COMMUNITIES ARE TRYING AT THIS POINT,
18 AND THOSE ARE THE VOLUNTARY PROGRAMS AT THE HOUSEHOLD,
19 WHICH IS REALLY THE ONLY SENSIBLE PLACE THEY CAN REALLY
20 CONTROL WHAT'S GOING INTO THAT GARBAGE CAN.

21 BOARD MEMBER ARAKALIAN: ALBEIT THAT WOULD BE
22 THE NICEST WAY TO HAVE THE PEOPLE BE NICE TO TAKE IT OUT.
23 HAVE YOU FOUND THAT THE NORMAL AMOUNT OF HAZARDOUS
24 HOUSEHOLD WASTE THAT HAS GONE INTO THE MATERIAL THAT
25 YOU'VE COMPOSTED AFTER THE DILUTION AND THE MIXTURE AND

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1 ITS PROCESSING THAT IT BECOMES BEARABLE.

2 MR. BUTLER: NOT ONLY BEARABLE. I DON'T MEAN TO
3 MAKE TOO MUCH -- PROBABLY AN INSIDE JOKE ANYWAY -- BUT
4 IT'S ODD THE TOXIC HEAVY METALS IN THE SOLID WASTE
5 INDUSTRY IN EXACTLY THE SAME PROPORTION TO THE AGRONOMOUS
6 FARMER OR SOIL SCIENTIST BECOME VALUABLE MICRONUTRIENTS.
7 IT'S A MATTER OF RELATIVE PROPORTION. THE ZINC, THE
8 LEAD, THE CHROME, THE CADMIUM, THE MAGNESIUM, ETC., AS WE
9 ALL KNOW, IN THE RIGHT PROPORTION EXTREMELY NECESSARY TO
10 PROPER PLANT GROWTH.

11 WE ARE FINDING BY OUR QA PROGRAM IN THE
12 COMPOST THAT WE ARE WELL WITHIN THE LIMITS. IN FACT, IN
13 SOME CASES WISH WE HAD MORE METALS.

14 MR. HEALEY: WE'RE NOT DOING THAT, BUT, YOU
15 KNOW, IF WE COULD GET IT AT TIP AND BLEND IT IN THERE AND
16 TAKE AN INDUSTRIAL WASTE THAT WOULD HAVE AND IT WOULD
17 ASSIST, WE WOULD DO IT.

18 MR. BUTLER: OUR CONCERN ANYMORE, AS YOU ARE
19 AWARE, IS IN THE SEWAGE SLUDGE SITE BECAUSE IT'S BEEN
20 MORE THE CARRIER OF THESE BAD ACTORS FOR A LONG TIME.
21 AND PRETREATMENT PROGRAMS AND THE QUALITY ASSURANCE ON
22 THAT SIDE IS EVEN MORE CRUCIAL TO US IN OUR PROCESS THAN
23 THE HOUSEHOLD HAZARDOUS. IT IS AN ISSUE. WE DO OUR
24 BEST. UNTIL SOMETHING BETTER COMES ALONG, I DON'T SEE
25 WHAT ELSE CAN BE DONE. THE REAL BOTTOM LINE IS THE

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1 QUALITY ON THE BACK SIDE.

2 MR. HEALEY: IN DIRECT ANSWER TO YOUR QUESTION,
3 IN JUST DAY-TO-DAY HANDLING, HOUSEHOLD HAZARDOUS WASTE
4 HAS NOT PRESENTED A PROBLEM IN OUR SYSTEM IN EITHER
5 IDENTIFICATION OR PROCESSING.

6 CHAIRMAN GALLAGHER: MS. BREMBERG.

7 BOARD MEMBER BREMBERG: THANK YOU, MR. CHAIRMAN.
8 BECAUSE ST. CLOUD HAS A COLLEGE THERE AND YOU HAVE AN
9 OPPORTUNITY TO DEAL WITH THE COLLEGE BOARD OF TRUSTEES,
10 HAVE YOU EVER CONSIDERED ASKING THEM TO DO A COST
11 ANALYSIS ON THEIR ARTIFICIAL FERTILIZERS AND SOIL
12 ENHANCERS THAT THEY'RE USING THROUGHOUT THE STATE OF
13 MINNESOTA AS OPPOSED TO THE COST OF USING YOUR PRODUCT
14 FOR SOIL ENHANCERS AND SO FORTH ALL OVER THE ENTIRE
15 STATE, TRANSPORTATION COSTS ET AL, PLUS STATE PARK
16 SYSTEM, WHICH CERTAINLY WOULD SEEM TO ME TO BE AN IDEAL
17 MARKETING WHERE GOVERNMENT AND INDUSTRY COULD COOPERATE.
18 BECAUSE, HAVING BEEN BORN AND RAISED IN MINNESOTA, I KNOW
19 EXACTLY WHERE YOU ARE TALKING.

20 MR. HEALEY: I'M GLAD YOU GOT THAT LEAD IN
21 BECAUSE I'VE GOT ONE SLIDE TO DO BEFORE WE GO ANY
22 FURTHER. I JUST WANTED TO GIVE YOU A LITTLE SNOW. THAT
23 WAS MY CLOSING AND NOW WE CAN TURN THIS THING OFF.

24 MR. BUTLER: I'VE WORKED IN THE WASTE BUSINESS
25 ALL OVER THE COUNTRY. AND I NEVER ENJOYED A REGULATORY



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1 RELATIONSHIP AS WE FOUND IN MINNESOTA IN TERMS OF THEIR
2 REALISTIC AGRESSIVENESS IN TERMS ENVIRONMENTAL ISSUES.

3 TO ANSWER YOUR QUESTION SPECIFICALLY, WE
4 HAVE NOT ONLY DONE WHAT YOU SUGGESTED, BUT GONE SO FAR
5 WITHIN THE SOIL SCIENCE DEPARTMENT OF THE U OF M TO STUDY
6 IN DETAIL 13 UNIQUE MARKETS FROM HORTICULTURE TO PUBLIC
7 USE TO ROADSIDE, EVERYTHING YOU CAN IMAGINE, HAVE DONE
8 ECONOMIC TRAFFIC STUDY ANALYSES, ETC., GREAT OPERATING
9 BASE FOR US TO WALK INTO TO START DOWN THE HARD WORK OF
10 REALLY PROVING THE MARKETS.

11 IT'S VERY OBVIOUS, BUT, I THINK, IMPORTANT
12 TO POINT OUT THAT THERE ISN'T AN INTELLIGENT LANDSCAPE
13 ARCHITECT, FARMER, HOUSEHOLD USER OR ANYBODY ELSE THAT
14 ISN'T GOING TO REACT POSITIVELY TO WILL YOU TAKE THIS
15 STUFF IF WE MAKE IT, BUT WILL NOT COMMIT UNTIL THEY CAN
16 SEE IT AND UNDERSTAND IT AND FEEL IT AND TOUCH IT. SO
17 WE'RE BRIDGING THE GAP IN OUR IMPORTANT WORK AT U OF M IN
18 TERMS OF IDENTIFICATION OF MARKETS BY VIRTUE OF AN
19 OPERATING PLANT WHICH REALLY MAKES SOMETHING TO GET IT
20 AROUND TO ACTUAL USE. WE HAVE ENJOYED A NICE, CLOSE
21 RELATIONSHIP WITH THEM.

22 BOARD MEMBER BREMBERG: I'M THINKING OF -- STATE
23 PARK IN SOUTHWESTERN MINNESOTA, ONE OF THE REAL PROBLEMS
24 WITH LANDSCAPING AND MAINTENANCE OF LANDSCAPING IS OAK
25 LEAF MOLD, WHICH -- I DON'T KNOW HOW IT WOULD INTERACT

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1 WITH OR IF YOUR PRODUCT WOULD REDUCE THE HARMFUL EFFECTS
2 OF THE OAK MOLD, WHICH REALLY GENERATES AN INCREDIBLE
3 NONPRODUCTIVE SOIL. I GO THERE EVERY SUMMER AND I SEE
4 THE OAK MOLD AND FURTHER DETERIORATING ENOUGH TO FOLD IN
5 COMPOST THAT WE JUST GENERATE OURSELVES.

6 MR. BUTLER: WITHOUT TAKING IT TOO FAR IN THE
7 DETAILED BIOLOGY OF TRASH BASED MUNICIPAL SOLID WASTE
8 BASE COMPOST IS MORE NATURALLY RESILIENT TO THOSE
9 INFECTIOUS BACTERIA IN PLANT GROWTH BASICALLY BECAUSE
10 IT'S GOT THE RESISTANCE BUILT UP THROUGH A VARIETY OF
11 THINGS THAT HAD TO BE TO BE ALIVE.

12 AS THE OTHER SIDE, MINNESOTA IS A VERY
13 DIFFICULT MARKET TO EXPLORE IN SOIL AMENDMENT BECAUSE YOU
14 HAVE MORE BLACK DIRT OUT THERE THAN IN THE REST OF THE
15 WORLD AT VERY CHEAP PRICES. I THINK CONSTRUCTIVE TO
16 NOTE, THOUGH, THAT WE'VE FOUND GOOD ACCEPTANCE FOR THE
17 PRODUCT EVEN IN A VERY COMPETITIVE MARKET, GRANTED NOT AT
18 HIGH ECONOMICS, BUT WIDE USE AND ACCEPTANCE.

19 MR. HEALEY: WHAT YOU ARE LOOKING AT, I DON'T
20 CARE IF WE'RE IN CALIFORNIA OR NEW YORK OR MINNESOTA OR
21 FLORIDA, REGARDLESS IF THEY'VE GOT RICH SOILS OR ORGANIC
22 POOR SOILS, THERE ARE COMMON USES AND THEY HAVE TO BE
23 FOCUSED, AGAIN, MAKING THIS A NATIONAL ALTERNATIVE, YOU
24 KNOW, AS NOT TO TAKE OVER WHATEVER ELSE IS BEING DONE.
25 BUT TO INTEGRATE AS PART OF AN ANSWER IS BEING ABLE TO

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1 IDENTIFY THAT THERE ARE TURF SPECS COMMONLY AGREED ON.
2 DIFFERENT STATES MAY HAVE A DIFFERENT WRINKLE TO IT AND
3 IT MAY NOT BE A STATE SPEC; BUT, IN FACT, THE PRIVATE
4 INDUSTRY SPEC OF TURF SPECIFICATIONS WHICH MANY STATES
5 AND/OR COUNTIES USE IN THEIR ENGINEERING PROJECTS,
6 WHETHER IT'S BLENDING INTO THE SOIL OR USING AS A IN
7 ADDITION TO OR AN ALTERNATE TO HYDROMULCH OR OTHER TYPE
8 TOP SOIL MATERIALS, THAT THOSE MARKETS DO EXIST, BUT IT'S
9 A MATTER OF HAVING A PRODUCT.

10 IT'S NOT A CHICKEN AND THE EGG SYSTEM HERE.
11 YOU HAVE TO MAKE A MATERIAL. YOU HAVE TO, QUOTE, TAKE
12 THAT RISK OR GET IT GOING AND SHOW THAT MATERIAL IS THERE
13 SO YOU CAN IDENTIFY, EITHER THROUGH BLENDING OR JUST FROM
14 YOUR OWN MANIPULATION OF PRODUCT, IDENTIFY THAT YOU CAN
15 MEET AN EXISTING SPECIFICATION AND SO THAT YOUR PRODUCT
16 CAN BE NAMED AS AN ALTERNATIVE TO THAT SPEC.

17 AND YOU MAY NOT DO IT AT THE STATE LEVEL,
18 BUT YOU MAY BE ABLE TO DO IT AT A COUNTY LEVEL. WHAT IS
19 IMPORTANT, INSTEAD -- IT IS MOST IMPORTANT THAT THEY JUST
20 SAY, LIKE WISCONSIN HAS MANDATED THAT WILL RECYCLING AND,
21 IN FACT, THEY HAVE A DEPARTMENT IN THEIR DEPARTMENT OF
22 TRANSPORTATION THAT IS AGGRESSIVELY PURSUING THAT TO MAKE
23 SURE IT GETS DONE AND OUR DEVELOPING AN ARTIFICIAL TURF
24 SPECIFICATION TO BE MET SO THAT IF YOU ARE GENERATOR X,
25 Y, OR Z FROM WHAEVER SOURCE. IF YOU CAN MEET THAT SPEC



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1 AND IT IS A RECYCLED PRODUCT, IT WILL BE A PERCENTAGE OF
2 GOING IN EVERY PROJECT THAT THEY HAVE.

3 BUT, ANYWAY, WE ARE DEALING WITH A NEW
4 MATERIAL. I MEAN, IF YOU ARE AN ORGANIC GARDENER OR
5 SOMEONE WHO IS IN AGRICULTURE OR HORTICULTURE FOR MANY
6 YEARS, THEY KNOW OF ITS EXISTENCE AND YOU DON'T HAVE TO
7 SELL THEM ABOUT THE ADDITIONAL ORGANICS OR GOOD OR OTHER
8 USES FOR IT.

9 FOR INSTANCE, ON THE HIGHWAY APPLICATIONS,
10 ONE OF THE UNIQUE THINGS ABOUT COMPOST IS THAT IT DOESN'T
11 DRIFT. SO AS IN TERMS OF A HYDRO -- YOU SAY IT'S GOING
12 TO BLOW AWAY OR NOT. WELL, THAT'S JUST ONE OF THE UNIQUE
13 PROPERTIES OF IT. IT DOESN'T. IT TENDS TO WANT TO STAY
14 PUT WHERE IT IS.

15 IN THE COUNTRY, EVEN AS YOU ARE SAYING
16 MINNESOTA, THEY ACKNOWLEDGE IN THEIR DOT, THEY'RE AFRAID
17 OF QUALITY. THEY DON'T WANT TO GET STUCK WITH TURNING IN
18 GARBAGE IN THE SOIL, BUT THEIR ORGANICS ON THE HIGHWAY
19 DEPARTMENT IS PRACTICALLY ZERO. THAT'S WHY WHEN YOU HAVE
20 HEAVY RAINS -- LAST JULY THEY HAD A 10-INCH RAIN AND YOU
21 HAD MUDSLIDES IN MINNESOTA, AND THEY WERE BLOCKING OUT
22 ROADS. THEY JUST DON'T HAVE THAT MATERIAL. THEY WOULD
23 LOVE TO USE IT IF IT WAS AVAILABLE.

24 YES, IT'S GOING TO BE A LOW VALUE ADDED
25 MARKET FOR THAT TYPE WHEN IT'S BLENDED INTO EXISTING



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1 PROGRAMS. AT BARROW SITES, YOU ARE GOING TO TAKE IT TO A -
2 BARROW SITE AND BLEND IT IN WITH WHAT THEY'RE USING SO
3 DEPOSITING 2 OR 3 PERCENT ORGANIC MATERIAL AS OPPOSED TO
4 1 PERCENT.

5 MR. BUTLER: I THINK THAT'S A REAL IMPORTANT
6 DISTINCTION. AS THE MAN FROM DANO SAID, THIS IS A HUMUS
7 BASED ORGANIC SOIL AMENDMENT. IT IS NOT A COMMERCIAL
8 GRADE FERTILIZER. IT'S NOT A COMMERCIAL GRADE PRODUCT,
9 NOR IS IT MEANT TO BE. IT'S PUTTING VALUABLE ORGANICS
10 BACK IN THE SOIL FOR PHYSICAL PROPERTIES, WATER
11 RETENTION, POROSITY, AND CERTAINLY SOME ORGANIC
12 NUTRIENTS. IT'S A LITTLE DIFFERENT PRODUCT IN TERMS OF
13 USE AND, CERTAINLY, THAT WHICH IS DIFFERENT AS WELL IN
14 TERMS OF THE DEPARTMENTS, TRANSPORTATION, PARK AND
15 RECREATION WHAT THEY'RE USED TO.

16 I THINK, IF THERE ARE OTHER QUESTIONS,
17 GREAT. IN SOME SUMMARY, I VERY MUCH THANK THE BOARD FOR
18 THE OPPORTUNITY TO COME BEFORE YOU. WE'RE PRETTY STRONG
19 BELIEVERS IN SUPPLY AND DEMAND. IF THE TIP FEES GO UP
20 OUT HERE AT THE LANDFILL, WE IMAGINE WE'LL HAVE SOME
21 OPPORTUNITIES.

22 SPECIFICALLY, WHAT WE WOULD IN THREE
23 PARTICULAR CASES REQUEST OF THE BOARD, FOR WHATEVER THEY
24 WANT TO DO WITH IT, IN TERMS OF SUPPORT FOR PRIVATE
25 COMPANIES LIKE OURSELVES IS. NO. 1, AND. I THINK



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1 FOREMOST, TO ANALYZE THE STATE ATTITUDE OR THE STATE
2 SUPPORT OF PARTICULARLY MARKET RESEARCH EFFORTS, APPLIED
3 MARKET RESEARCH EFFORTS.

4 THE PROBLEM OF DISTRIBUTING THESE PRODUCTS,
5 ESPECIALLY THE RECYCLABLES, NOT JUST THE COMPOST, IN A
6 LOCAL MARKET AREA IS TIME CONSUMING AND EXPENSIVE FOR
7 PRIVATE COMPANIES CONCERNING THE BILL BECAUSE THEY SIMPLY
8 ADD IT TO THE TIP FEE FOR WHATEVER THEY'RE CHARGING. THE
9 STATE SUPPORTED PROGRAMS IN THAT REGARD, GRANT PROGRAMS,
10 ETC., WE FOUND TO BE QUITE BENEFICIAL, ESPECIALLY THOSE
11 THAT DON'T HAVE A LOT OF STRINGS ON THEM, MATCHING
12 PROGRAMS PARTICULARLY.

13 SECONDLY, OBVIOUSLY, IN ANY NEW INDUSTRY
14 SUCH AS THIS INDUCEMENTS OR INCENTIVES ARE THERE. I
15 THINK YOU WILL FIND TYPICALLY THOSE OF US THAT TAKE THE
16 DESIGN, BUILD, OPERATE APPROACH TO PLANTS WANT THE
17 RESPONSIBILITY FOR THEIR OPERATION, BRING WITH THEM OWN
18 MONEY, BUT THE COST OF MONEY IS AN ITEM INVOLVING THE
19 COST OF THE TIP FEE AGAIN, AND WHATEVER STATE SUPPORT IS
20 AVAILABLE THERE THROUGH INDUCEMENTS, ETC. IS ALWAYS AT
21 LEAST AN ATTRACTIVE ALTERNATIVE TO ASSESS AGAINST THE
22 MATTER OF HOW MANY STRINGS.

23 THIRDLY AND LASTLY, IS THE ATTEMPT TO
24 SUPPORT ON THE RECYCLE PRODUCT SPECIFICATIONS, IN FACT,
25 WE DROVE YOU INTO THE GROUND ON IT AND SAID TOO MUCH.

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1 THAT AS WELL. THE EASE OF THE MARKETING PROGRAM, THE
2 LOWERING OF THE RISK FACTOR ALL COMBINE TO ALLOW
3 COMPANIES LIKE OURSELVES TO COME IN WITH A COST-EFFECTIVE
4 TIP FEE. THAT'S REALLY WHAT IT'S ALL ABOUT IN TERMS OF
5 KNOWING THAT YOU ARE GOING TO BE RAISING 2 OR 300 PERCENT
6 JUST TO GET TO WHERE YOU NEED TO BE ANYWAY.

7 UNLESS THERE ARE OTHER QUESTIONS, WE THANK
8 YOU ENOUGH FOR ALLOWING US TO COME BEFORE YOU AND WE HOPE
9 WE SEE YOU AGAIN.

10 MR. HEALEY: I'VE GOT ONE OTHER QUESTION. I
11 KNOW YOU ARE THROUGH. WE'RE BEING ON OUR BEST BEHAVIOR
12 TODAY.

13 JUST ONE OTHER THING ABOUT SITING. WE FEEL
14 THAT A 500 TON, GROSS TONS, NOT PROCESSED TONS, BUT TONS
15 THAT HIT A TIP FLOOR OR A TRANSFER STATION, IS ABOUT THE
16 MAXIMUM THAT WE WOULD ENCOURAGE OR WANT IN ANY PARTICULAR
17 SITE OR LOCATION. AND THAT WE FEEL VERY STRONGLY THAT IN
18 THIS PROCESS, BECAUSE TRANSPORTATION IS A MAJOR ISSUE,
19 REMEMBER YOU'VE GOT 70 PERCENT IS BEING RECYCLED AND/OR
20 REUSED IN THE MATERIAL, THAT BECAUSE WE CAN SITE AT
21 TRANSFER STATIONS, AT WASTEWATER TREATMENT PLANTS, AT
22 LANDFILLS, THAT A MULTIPLE APPROACH IS MORE DESIRABLE AND
23 THAT 500-TON GROSS RATING WOULD BE THE MAXIMUM ALLOWED.

24 IF WE WERE IN IDEAL HEAVEN, 250 WOULD BE
25 WONDERFUL, BUT 500 CAN BE DONE JUST BY A MODULAR APPROACH

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1 OF OUR DESIGN, BUT WE FEEL THE LIMITATION IS ULTIMATELY
2 IN TRANSPORTATION. WE REALIZE THAT THAT FLIES IN CERTAIN
3 COMMUNITIES OR CERTAIN AREAS OF THE COUNTRY WHERE
4 PERMITTING IS NEVER EASY VIRTUALLY ANYWHERE; BUT BECAUSE
5 WE CAN SITE AT DIFFERENT AREAS, IT MITIGATES SOME OF THAT
6 PROBLEM. BUT IT'S A MATTER OF THE LEFT HAND AND THE
7 RIGHT HAND TALKING TO EACH OTHER BUREAUCRATICALLY THAT
8 THEY COULD GET TOGETHER ON SOME ISSUES. AND THAT IS
9 OUTSIDE OF OUR CONTROL OTHER THAN KNOWING, YES, IT CAN BE
10 DONE IF YOU HAVE THE WILL TO DO IT.

11 NOW I'M THROUGH. THANK YOU VERY MUCH.

12 CHAIRMAN GALLAGHER: THANK YOU VERY MUCH FOR
13 COMING. AS I INDICATED EARLIER, COMPOSTING DEFINITELY IS
14 IN OUR FUTURE AT SOME POINT IN TIME, AND WE APPRECIATE
15 THE INFORMATION THAT YOU PRESENTED.

16 NOW WE CAN GO TO ITEM 23.

17 WHY DON'T WE TAKE 10 MINUTES. GET BACK AT
18 11:30, WE'LL BE ALL RIGHT.

19 (RECESS TAKEN.)

20 CHAIRMAN GALLAGHER: CALL THE MEETING BACK TO
21 ORDER, PLEASE.

22 MS. JACKSON: MR. CHAIRMAN, BOARD MEMBERS, YOU
23 HAVE A COPY OF A PROPOSED TIRE BILL WHICH HAS BEEN SIGNED
24 BY JAN SHARPLESS AND SENT TO THE GOVERNOR'S OFFICE FOR
25 APPROVAL. I WANTED TO POINT OUT A FEW THINGS IN THE BILL



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1 TO YOU.

2 IN THE GOVERNOR'S VETO MESSAGE, HE FELT
3 THAT THERE WERE THREE THINGS MISSING IN THE BILL'S
4 LANGUAGE, THE ORIGINAL BILL, WHICH IS AB 4607, LAST
5 YEAR'S TIRE BILL. ONE WAS THAT THERE WAS NO PROCESS FOR
6 SPECIFYING THE APPROVAL OF GRANTS, SUBSIDIES, AND LOANS.
7 SECONDLY, THERE WAS NO CRITERIA SPECIFYING HOW TO MEASURE
8 THE RESULTS OF THESE. AND, LAST, NO ACCOUNTABILITY AS TO
9 HOW THIS ALL SERVES THE PUBLIC INTEREST.

10 AND SO IN THIS BILL WE'VE ADDRESSED ALL OF
11 THOSE THREE CONCERNS OF THE GOVERNOR'S. AND ONE OTHER
12 THING, WE TOOK IT A STEP FURTHER AND WE ADDED GOALS FOR
13 ALL TIRE RECYCLING TECHNIQUES AND ALTERNATIVE PROCESSES
14 WOULD BE A 25-PERCENT REDUCTION IN THE NUMBER OF WHOLE
15 TIRES STOCKPILED OR SENT TO LANDFILLS AT THE END OF THE
16 FIRST FOUR YEARS OF THIS PROGRAM.

17 SO I JUST WANTED TO MAKE YOU AWARE OF IT.
18 WE'RE WAITING NOW FOR THE GOVERNOR'S OFFICE TO GIVE US
19 APPROVAL TO SPONSOR THIS BILL.

20 CHAIRMAN GALLAGHER: ANY QUESTIONS?

21 BOARD MEMBER BREMBERG: MR. CHAIRMAN, WOULD
22 THESE SAME GROUPS, DO YOU SUPPOSE, HAVE THEY BEEN GIVEN
23 THE OPPORTUNITY TO SUGGEST WHETHER OR NOT THEY WOULD
24 CONTINUE THEIR SUPPORT?

25 MS. JACKSON: NO. THEY HAVE NOT BEEN GIVEN THE



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1 OPPORTUNITY. WE ARE AT THIS POINT WAITING FOR APPROVAL
2 FROM THE GOVERNOR'S OFFICE BEFORE WE START GATHERING
3 SUPPORT FOR THE BILL IN THIS FORM.

4 MR. EOWAN: WE'RE IN THE VERY, VERY EARLY
5 STAGES.

6 BOARD MEMBER BREMBERG: I UNDERSTAND THAT.
7 THESE THESE WOULD BE THE PLACE WHERE YOU START AGAIN.

8 MR. EOWAN: OH, YEAH. WE HAVE TO DEFINITELY
9 WORK WITH THOSE PEOPLE.

10 CHAIRMAN GALLAGHER: MR. BEAUTROW, YOU HAVE ANY
11 QUESTIONS?

12 BOARD MEMBER BEAUTROW: NO. ARE WE TALKING
13 ABOUT OTHER LEGISLATION TOO AT THIS TIME OR JUST THIS
14 ONE?

15 CHAIRMAN GALLAGHER: WELL, WE DON'T REALLY HAVE
16 ANY OTHER LEGISLATIVE APPROVALS THAT HAVE GONE AS FAR AS
17 THIS ONE.

18 BOARD MEMBER BEAUTROW: THIS IS JUST A COMMENT
19 ON LEGISLATION.

20 I'VE HEARD SINCE I'VE BEEN DOWN HERE FROM
21 SEVERAL SOURCES THAT KILLEA IS GOING TO REINTRODUCE THE
22 SAME BILL WITH THE SAME STUFF, AND I HOPE THAT WE'RE
23 GOING TO PRESENT SOME OTHER KIND OF INFORMATION OR TRY TO
24 CONVINCHE HER. I MEAN, WE DON'T WANT TO GO THROUGH THIS
25 AGONY AGAIN, AND I WONDER IF WE'RE REALLY GOING TO START

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1 DEALING WITH THAT RIGHT AWAY. DON'T LET IT SLIDE.

2 MS. JACKSON: WE HOPE TO DEAL WITH IT AS SOON AS
3 WE POSSIBLY CAN.

4 BOARD MEMBER BREMBERG: LIKE TOMORROW.

5 MR. EOWAN: WELL, WE HAVE -- DEALING WITH IT IS
6 TERM I DON'T QUITE UNDERSTAND. WE HAVE BEEN PREPARED FOR
7 WELL OVER A YEAR WITH PROPOSALS ON WHAT WOULD BE
8 APPROPRIATE RECYCLING PROGRAMS THAT WE COULD SUPPORT.
9 AND WE'RE READY TO DO THAT AT ANY TIME AND DEAL WITH IT
10 AT ANY TIME. WE CAN'T STOP KILLEA FROM INTRODUCING
11 ANYTHING OR ANYBODY ELSE, AND I GUARANTEE YOU THERE WILL
12 BE A NUMBER OF PROPOSALS PRESENTED.

13 HOPEFULLY, EVEN ONE THAT WE CAN SUPPORT
14 VERY STRONGLY, IF NOT SPONSOR, AND WE WILL BE READY WHEN
15 IT'S TIME TO BE READY WHEN THE LEGISLATURE RECONVENES.

16 BOARD MEMBER BREMBERG: WE WILL BE PROACTIVE AND
17 NOT JUST SIT AND WAIT AND WRING OUR HANDS.

18 BOARD MEMBER BEAUTROW: YOU KNOW, I TALKED TO
19 ABOUT THIS A COUPLE OF TIMES, AND I WONDERED IF THERE'S
20 ANY MERIT IN IT OR WE COULD DO IT ABOUT DOING THINGS TO
21 CHANGE OUR REGULATIONS, OUR EXISTING REGULATIONS BY
22 AMENDMENT OR WHATEVER TO ACCOMPLISH, MAYBE, SOME OF THE
23 SAME THINGS THAT WOULD BE DONE LEGISLATIVELY. IF THERE'S
24 SOME WAY THAT WE COULD MANIPULATE THAT. I KNOW THAT ALL
25 TAKES TIME TOO, BUT AT LEAST WE COULD SAY WE HAVE

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1 SOMETHING IN PROGRESS. WE ALWAYS SAID WE HAVE THE
2 REGULATIONS IN PLACE TO DO ALL OF THESE THINGS. WELL,
3 THERE'S CERTAIN ELEMENTS THAT WE DON'T EVIDENTLY. SO I
4 REALLY THINK THAT WE OUGHT TO TRY TO SEE WHAT COULD BE
5 DONE ON REGULATORY CHANGE ALSO.

6 CHAIRMAN GALLAGHER: MR. BEAUTROW, LET ME ADD TO
7 THAT BY SAYING TO YOU THAT IT IS TRUE THAT WE DO HAVE
8 REGULATORY THINGS IN PLACE WHICH CAN ACCOMPLISH MUCH OF
9 WHAT THIS LEGISLATION THAT MANY PIECES OF IT THAT HAVE
10 BEEN INTRODUCED WOULD TEND TO DO. THAT IN ITSELF DOES
11 NOT, HOWEVER, PREVENT SOMEONE FROM INTRODUCING
12 LEGISLATION TO DO THE SAME THING THAT OUR REGS COULD DO.

13 THE OTHER THING IS THAT WE'VE BEEN VERY
14 CAREFUL. I WOULD NOT WANT ANY OF YOU TO BE MISLED TO
15 THINK THAT WE HAVEN'T BEEN DOING ANYTHING TO PREPARE FOR
16 THE KILLEA BILL OR ALTERNATIVES.

17 THE DIFFERENCE IS UNTIL WE HAVE IT THROUGH
18 AGENCY AND SIGNED OFF ON, WE'RE JUST NOT GOING TO TALK
19 ABOUT IT BECAUSE IT GIVES PEOPLE AN OPPORTUNITY TO TAKE
20 SHOTS AT US BEFORE WE'VE EVEN MADE AN INTRODUCTION. OUR
21 PURPOSE IS TO TRY TO HAVE, WHEN WE GO BEFORE THE
22 LEGISLATURE, LEGISLATION PROPOSALS, LEGISLATIVE PROPOSALS
23 WHICH WILL HAVE THE FULL SUPPORT IN ADVANCE OF OUR
24 AGENCY, THE GOVERNOR'S OFFICE SO THAT WE WILL NOT BE
25 FIGHTING WIND MILLS AS WE GO ALONG. AND WE'LL HAVE SOME

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1 OTHER THINGS THAT WILL BE PRESENTED TO YOU AT OTHER
2 MEETINGS AND BEFORE, PERHAPS; BUT I HOPE YOU WILL BEAR
3 WITH US AND LET US GOING THROUGH THIS PROCESS OF BEING
4 SURE WE DO HAVE SUPPORT BEFORE WE GO OUT THERE TRYING TO
5 SELL SOMETHING.

6 BOARD MEMBER BREMBERG: MR. CHAIRMAN, I THINK
7 THAT'S ABSOLUTELY SPLENDID, BUT I THINK IT MIGHT BE KIND
8 OF NICE IF YOU COULD JUST WHISPER IN OUR EAR THAT THESE
9 THINGS HAPPENING SO THAT WE WOULDN'T CONSISTENTLY RAISE
10 ISSUES. IT'S A MATTER OF COMMUNICATION THAT WE KNOW THAT
11 THESE THINGS ARE IN THE MILL INSTEAD OF HAVING THEM COME
12 TO US AS A FULL-BLOWN SOMETHING OR OTHER. YOU KNOW,
13 WE'RE NOT GOING TO FIGHT IT. WE'RE GOING TO BE GOOD
14 KIDS, BUT I THINK NICE IF WE KNEW WHAT WERE GOING ON.

15 CHAIRMAN GALLAGHER: WE'LL TRY TO KEEP YOU
16 ADVISED; HOWEVER, WE ARE NOT GOING TO TIP OUR HAND
17 NECESSARILY AND TO THE BEST DEGREE THAT WE CAN, WE WILL
18 LET EVERYONE ON THE BOARD KNOW WHAT'S GOING INTO THE
19 PACKAGE. AS A MATTER OF FACT, IF MY RECOLLECTION SERVES
20 ME CORRECTLY, THE BOARD'S BEEN ASKED TO SUBMIT ANY KIND
21 OF INFORMATION THEY WANT TO HELP US IN THE DEVELOPMENT OF
22 THESE PACKAGES.

23 SO LET ME ASSURE YOU THAT YOU ARE NOT BEING
24 CUT OUT OF THE PROCESS; BUT, ON THE OTHER HAND, WE'RE
25 GOING TO HAVE A PROCEDURE THAT WE HOPE WILL WORK AND PUT

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1 US IN THE DISTINCT ADVANTAGE OF HAVING APPROVALS BEFORE
2 WE GO BEFORE THE LEGISLATURE.

3 ANYTHING ELSE?

4 MS. JACKSON: NO, MR. CHAIRMAN.

5 CHAIRMAN GALLAGHER: ANYTHING ELSE FROM THE
6 BOARD? ANY COMMENTS FROM THOSE SITTING IN THE AUDIENCE.

7 IF NOT, GO TO THE NEXT ITEM 24, I THINK,
8 SIGNIFICANT STAFF ACTIVITY.

9 MR. EOWAN: THANK YOU, MR. CHAIRMAN. I JUST
10 WANTED TO GIVE YOU AN UPDATE VERY BRIEFLY ON WHERE WE ARE
11 IN OUR PREPARATION OF OUR PORTION OF THE GOVERNOR'S
12 BUDGET.

13 WE HAVE MET WITH THE DEPARTMENT OF FINANCE
14 AND THE AGENCY SECRETARY, I BELIEVE, THE FIRST WEEK IN
15 NOVEMBER TO NEGOTIATE OUR REQUESTS FOR BUDGET CHANGES FOR
16 THE UPCOMING BUDGET YEAR. AND I'LL TELL YOU PRETTY MUCH
17 WHERE THE DECISIONS ARE, WHAT'S OPEN, WHAT'S CLOSED, AND
18 WHAT WE'VE GOT. BEFORE I MENTION THAT, I SHOULD SAY THAT
19 WE'VE BEEN IN A VERY, VERY TIGHT BUDGET SITUATION FOR A
20 NUMBER OF YEARS NOW AS I KNOW YOU ARE ALL AWARE.

21 IT GOT WORSE AFTER THE ELECTION WITH THE
22 PASSAGE OF SOME PROPOSITIONS IN TERMS OF HOW IT AFFECTS
23 ALL GENERAL FUND ALLOCATIONS.

24 HAVING SAID THAT, WE WERE SUCCESSFUL IN
25 NEGOTIATING WITH THE DEPARTMENT OF FINANCE TO RECEIVE



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1 FUNDING FOR TWO POSITIONS IN THE HOUSEHOLD HAZARDOUS
2 WASTE PROGRAM, RECALLING THAT IN THIS CURRENT YEAR WE
3 ADMINISTRATIVELY ESTABLISHED THOSE POSITIONS AND PULLED
4 MONIES OUT OF DIFFERENT NONPERSONNEL RELATED POTS TO FUND
5 THEM. NOW WE HAVE THAT IN OUR BASE LINE BUDGET, SO
6 THAT'S AN ADDITIONAL STAFFING LEVEL FOR THAT PROGRAM.

7 WE ALSO RECEIVED APPROVAL FOR THE BUDGET
8 YEAR AND THE REMAINDER OF THIS FISCAL YEAR BEGINNING
9 JANUARY 1, '89, FOR THE FULL-TIME CHAIRMAN POSITION.

10 WE ALSO REQUESTED HOUSEHOLD HAZARDOUS WASTE
11 IMPACT STUDIES, TRYING TO FIND A WAY TO FUND A STUDY THAT
12 LOOKS AT THE EFFECTS OF HOUSEHOLD HAZARDOUS WASTE IN A
13 LANDFILL CELL. WE WERE NOT SUCCESSFUL IN GETTING GENERAL
14 FUND MONEY FOR THAT, BUT I HAVE HAD DISCUSSIONS WITH THE
15 UNIVERSITY OF CALIFORNIA TOXICS RESEARCH CENTER, AND THEY
16 INDICATE THAT THEY'RE INTERESTED IN THIS PROPOSAL, AND WE
17 MAY BE ABLE TO FUND A VERY LIMITED STARTUP. THEY DON'T
18 HAVE A LOT OF MONEY. THEY HAVE \$20,000, PERHAPS, TO
19 SPEND ON SOMETHING LIKE THIS, NOT A LOT OF MONEY, BUT IT
20 WOULD GET US STARTED. AND PERHAPS DO A PHASED RESEARCH
21 OVER A NUMBER OF YEARS TO SEE HOW THE HOUSEHOLD HAZARDOUS
22 WASTE EFFECTS OCCUR IN THE LANDFILL CELL.

23 WE -- LET ME SEE IF I CAN HIGHLIGHT. WE
24 WERE LOOKING FOR A REVIEW OF ENGINEERING PLANS AND
25 TECHNICAL REPORTS. AS PERMITTING -- THIS COORDINATES



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1 WITH AN ADDITIONAL REQUEST FOR PERMIT STAFFING AND
2 AUGMENTATION IN THAT AREA. WE ARE ANTICIPATING A LARGE
3 INFUX OF PERMITS, WHICH REALLY HAS TWO EFFECTS. ONE IS
4 A MAJOR FILING, PAPER PROCESSING COMMUNICATION WITH LOCAL
5 ENTITIES EFFORT, AND THAT'S A BIG EFFORT WHEN YOU ARE
6 TALKING ABOUT THE NUMBERS OF PERMITS THAT WE EXPECT TO BE
7 RECEIVING.

8 IN ADDITION, ON A NUMBER OF THOSE
9 FACILITIES, WE EXPECT TO HAVE TO DO SOME FAIRLY IN DEPTH
10 ENGINEERING DESIGN REVIEW, AND WE REQUESTED ADDITIONAL
11 STAFFING IN THOSE AREAS. AND AT THIS POINT THAT IS NOT
12 GOING TO OCCUR. SO WE'RE GOING TO HAVE TO FIND OTHER
13 WAYS TO DO THIS, AND WE'RE LOOKING INTO ALTERNATIVE
14 SOURCES OF FUNDING FOR THOSE PROGRAMS, WHICH I'LL DISCUSS
15 WITH YOU AT ANOTHER POINT IN TIME.

16 THOSE ARE THE HIGHLIGHTS OF OUR EFFORTS.
17 THERE ARE TWO OTHERS I GUESS I SHOULD MENTION, LANDFILL
18 GAS EVALUATION. THAT REMAINS OPEN. WE'RE STILL
19 NEGOTIATING WITH THE DEPARTMENT OF FINANCE TO SEE IF WE
20 CAN AUGMENT OUR LANDFILL GAS STUDY PROGRAM, DR.
21 JOVANIGUS' (PHONETIC) EFFORTS. WE DON'T INTEND TO STOP
22 THAT. WE'RE NOW FUNDING THAT OUT OF OUR DISCRETIONARY
23 CONTRACT MONIES THAT WE GET EVERY YEAR. WE'D LIKE TO SEE
24 THAT PUT INTO OUR BASE IN A SPECIAL LINE ITEM CATEGORY.
25 THAT'S WHAT WE'RE REQUESTING. THAT'S STILL OPEN. THAT

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1 MAY HAPPEN. PROBABLY NOT. WE'LL PROBABLY HAVE TO
2 CONTINUE TAKING IT OUT OF OUR DISCRETIONARY MONIES.

3 WE ALSO REQUESTED A COMBUSTION ASH STUDY,
4 CREATING A MONOCELL, PUTTING IN THE ASH, AND DOING SOME
5 WORK -- RESEARCH TO LOOK AT THE LEACHATE CHARACTERISTICS
6 AND WHAT HAVE YOU. THAT REALLY IS CLOSED ALTHOUGH WE ARE
7 LOOKING AT AN ALTERNATIVE SOURCE OF FUNDING THERE THROUGH
8 PETROLEUM VIOLATION ESCROW MONEY. AS YOU ARE AWARE,
9 WE'RE STUDYING THE EMISSION EFFECTS IN SOME ASH
10 CHARACTERISTICS AT THE COMMERCE FACILITY THROUGH THIS
11 PVEA MONEY. WE WANT TO SEE IF WE CAN GET SOME FOLLOW-UP
12 MONIES TO LOOK AT THE ASH CHARACTERISTICS IN THE
13 MONOCELL.

14 I DON'T KNOW HOW MUCH MONEY THERE IS
15 AVAILABLE. I'VE TALKED TO THE AGENCY SECRETARY ABOUT IT,
16 AND SHE'S VERY SUPPORTIVE OF IT AND IS GOING TO GO TO BAT
17 FOR US ON THAT. THAT'S A MULTI-AGENCY DECISION-MAKING
18 COMMITTEE CHAIRED BY CHUCK INBRECHT (PHONETIC) AT THE
19 ENERGY COMMISSION. SO WE'LL SEE. WE'LL TAKE OUR CHANCES
20 THERE AND SWING THE BAT. THAT'S THE BUDGET UPDATE.

21 BOARD MEMBER BREMBERG: MR. CHAIRMAN, I HAVE ONE
22 QUESTION. THE OTHER NIGHT ON THE MONSTER SHIP SEVERAL
23 COUNTY PEOPLE CAME UP TO ME AND ASKED ABOUT WHY THERE WAS
24 SUCH A DIFFERENCE IN INTERPRETATION BETWEEN SIGNIFICANT
25 CHANGE REQUIREMENTS FROM COUNTIES POINT OF VIEW AND FROM

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1 OUR STAFF POINT OF VIEW. IS THIS THE PLACE TO ASK THAT
2 QUESTION?

3 MR. EOWAN: WE'D BE HAPPY TO RESPOND.

4 BOARD MEMBER BREMBERG: OKAY. I DIDN'T KNOW THE
5 ANSWER. I SAID I WOULD ASK. BECAUSE, AS I SEEM TO
6 RECALL, WE DIDN'T THINK IT WAS SUCH A GREAT BIG HUGE
7 DEAL, BUT THE COUNTY PEOPLE SEEM TO THINK THAT OUR STAFF
8 IS GENERATED A GREAT BIG HUGE DEAL OUT OF THIS.

9 MR. EOWAN: IT WASN'T A BIG DEAL WHEN WE WEREN'T
10 PROCESSING A LOT OF PERMITS. BUT WHEN YOU COMBINE THE
11 DECISIONS THAT THE COMMITTEE MADE -- OUR COMMITTEE, BOARD
12 COMMITTEE CHAIRED BY LES BROWN, COMPLETED WORK '87 AND
13 THEY CAME UP WITH WHAT THEY THOUGHT WAS SIGNIFICANT
14 CHANGE. I CAN SHOW YOU THAT REPORT.

15 BOARD MEMBER BREMBERG: I READ IT ONCE.

16 MR. EOWAN: IT'S BEEN AWHILE. WE THINK WE'RE
17 STAYING BY THOSE GUIDELINES, BUT THEY'RE NOT SPECIFIC.
18 AT ONE POINT IN TIME, WE SAID IF SAID IF YOU HAVE A
19 20-PERCENT INCREASE, THAT'S A SIGNIFICANT CHANGE. WHAT
20 IF YOU HAD 19 PERCENT? SO YOU HAVE TO LOOK AT IT SITE BY
21 SITE, FACILITY BY FACILITY, AND THERE'S A LOT OF JUDGMENT
22 INVOLVED. WE THINK WE'RE STAYING WITHIN THE GUIDELINES
23 OF THE COMMITTEE.

24 WE'LL BE HAPPY TO REVIEW THAT WITH YOU.
25 WHAT'S HAPPENED, THOUGH, IS AT THE SAME TIME WE HAVE



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1 WRITTEN, AS YOU ARE ALL AWARE, LETTERS TO ALL THE
2 OPERATORS SAYING, "YOUR FIVE-YEAR PERMIT IS -- FIVE-YEAR
3 REVIEW OF YOUR PERMIT IS DUE. IF IT'S NOT DUE AND WE
4 HAVE AN ERROR IN OUR FILES, LET US KNOW. IF IT IS DUE,
5 IT'S TIME." THAT HAS A BEARING ON THE SIGNIFICANT
6 CHANGES ISSUE BECAUSE IF YOU HAVE SIGNIFICANT CHANGE AND
7 YOUR FIVE-YEAR REVIEW IS DUE, THERE'S THE RUB.

8 BOARD MEMBER BREMBERG: I THINK THE RUB ALSO IS
9 THE DEFINITION OF SIGNIFICANT FROM THE COUNTY'S POINT OF
10 VIEW AND OR CITIES, PLUS OUR STAFF'S DEFINITION. AND
11 THEY FEEL THAT IN CERTAIN INSTANCES, AT LEAST THOSE THAT
12 TALKED TO ME, FELT THAT THEY WERE BEING REALLY ATTACKED
13 AND WERE BEING REQUIRED TO SPEND AN EXTRAORDINARY AMOUNT
14 OF MONEY ON WHAT THEY FELT WAS NOT A SIGNIFICANT CHANGE,
15 BUT WHAT THEY HAD BEEN TOLD WAS A SIGNIFICANT CHANGE.

16 MR. EOWAN: WELL, WE'LL BE HAPPY TO TALK TO
17 THOSE SPECIFIC COUNTIES IF YOU WANT. I CAN GIVE YOU
18 EXAMPLE AFTER EXAMPLE OF RANGE OF REQUESTS AND WHAT'S
19 CONSIDERED SIGNIFICANT AND WHAT ISN'T, EVERYTHING FROM
20 THE RATIONAL TO THE ABSURD.

21 BOARD MEMBER BREMBERG: I DON'T DOUBT THAT A
22 BIT.

23 MR. EOWAN: IT'S WHEN YOU HAVE THAT RANGE AND
24 YOU'VE GOT TO COME INTO SPECIFIC -- MAKE A DECISION ON A
25 SPECIFIC PERMIT THAT YOU HAVE THOSE QUESTIONS COME UP.

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1 AND IF YOU HAVE SOME SPECIFIC COUNTIES, WE'LL BE HAPPY TO
2 TALK TO THEM AND SEE WHAT WE CAN DO.

3 BOARD MEMBER BREMBERG: THANK YOU.

4 BOARD MEMBER VARNER: YOU KNOW, I JUST WONDER,
5 THOUGH, HOW CAN YOU EVER RECONCILE THIS ISSUE BECAUSE
6 WHAT'S ONE PERSON'S IDEA OF A SIGNIFICANT CHANGE AND
7 ANOTHER'S IDEA OF A SIGNIFICANT CHANGE ISN'T GOING TO BE
8 THE SAME. I THINK THAT WE HAVE TO TRY TO JUST
9 ACCOMMODATE THESE PEOPLE WITHIN THE GUIDELINES THAT THE
10 STAFF HAS BEEN GIVEN. SURELY, THE STAFF DID NOT CREATE
11 THESE CRITERIA ON THEIR OWN.

12 MR. EOWAN: NO. NO. WELL, AT ONE POINT IN TIME
13 THE STAFF DID. I'M TALKING SIX, SEVEN YEARS AGO.

14 BOARD MEMBER VARNER: I'M TALKING ABOUT NOW.

15 MR. EOWAN: NOW WHAT WE'RE OPERATING UNDER IS A
16 SET OF GUIDELINES DEVELOPED BY A COMMITTEE APPOINTED BY
17 THE BOARD.

18 BOARD MEMBER BREMBERG: THERE WERE NO CLEAR
19 DEFINITIONS.

20 MR. EOWAN: NO. THERE'S NOTHING THAT SAYS IF
21 YOU INCREASE YOUR CAPACITY BY X PERCENT, THAT THAT IS A
22 SIGNIFICANT CHANGE BECAUSE YOU JUST CAN'T DO THAT.

23 BOARD MEMBER BREMBERG: SO THAT'S WHY IT'S
24 SUBJECTIVE ALL THE WAY DOWN THE LINE. YOU ARE
25 NEGOTIATING CASE BY CASE, NOT JUST ACROSS THE BOARD?



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1 MR. EOWAN: ABSOLUTELY.

2 BOARD MEMBER VARNER: I THINK THAT'S THE BEST
3 YOU CAN DO IS SAY THAT YOU'RE GOING TO LOOK AT EACH ONE
4 WITHIN THE GUIDELINES, TAKE EACH CASE ON ITS OWN MERITS.
5 OTHERWISE, YOU ARE ALWAYS AT THE MERCY OF SOMEBODY ELSE'S
6 WHIMS, WHATEVER THEY MIGHT BE.

7 CHAIRMAN GALLAGHER: IN THIS CASE, HOWEVER, IF
8 YOU HAVE A SPECIFIC, MR. EOWAN WILL BE INSTANT REPLAY.
9 HE'LL TAKE A LOOK AT THE JUDGMENT.

10 MR. EOWAN: THANK YOU. THAT CONCLUDES OUR
11 SIGNIFICANT STAFF.

12 CHAIRMAN GALLAGHER: NOW YOU HAVE ANOTHER ITEM
13 ON HERE, LOOKING AT THE FUTURE AGENDA.

14 MR. EOWAN: WE PRESENTED THIS TO YOU. AND IF
15 YOU HAVE ANY SUGGESTIONS FOR ITEMS FOR DECEMBER OR
16 CHANGES, MODIFICATIONS OF THE AGENDA, I'D BE HAPPY TO
17 HEAR FROM YOU WITHIN THE NEXT FEW DAYS, BUT WE TRY TO GET
18 THIS OUT TWO WEEKS IN ADVANCE IF POSSIBLE. IF YOU WOULD
19 TAKE A LOOK ANOTHER IT IN THE NEXT COUPLE OF DAYS, WE'D
20 APPRECIATE IT.

21 BOARD MEMBER BREMBERG: MR. CHAIRMAN, HAVE WE
22 SET UP THE NEXT BUNCH OF MEETINGS? WHEN ARE WE GOING --
23 AT THE DECEMBER MEETING ARE WE GOING TO SET UP THE NEXT
24 SERIES?

25 CHAIRMAN GALLAGHER: WE'LL BE TALKING ABOUT THE



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1 MEETINGS FOR EARLY 1989 AT OUR NEXT BOARD MEETING.

2 BOARD MEMBER BREMBERG: FINE. THANK YOU.

3 CHAIRMAN GALLAGHER: IS THERE ANYTHING ELSE TO
4 COME BEFORE THE BOARD BEFORE WE DECLARE THE MEETING
5 ADJOURNED?

6 MR. EOWAN: I MUST REMIND YOU TO NOTE THAT THE
7 CHRISTMAS PARTY IS BEING PLANNED FOR THE NEXT BOARD
8 MEETING ON THURSDAY EVENING.

9 CHAIRMAN GALLAGHER: ALL RIGHT. THANK YOU VERY
10 MUCH. MS. JACKSON.

11 MS. JACKSON: BOARD STAFF WOULD LIKE TO THANK
12 MR. BEAUTROW FOR HIS PARTICIPATION IN A PRESS CONFERENCE
13 IN SANTA BARBARA ON TUESDAY FOR HOUSEHOLD HAZARDOUS
14 WASTE, WITH ASSEMBLYMAN JACK O'CONNELL AND THE GILL DAY
15 RESOURCE CENTER, AS WELL AS STAFF DAVID STRICKLER. THANK
16 YOU, MR. BEAUTROW.

17 CHAIRMAN GALLAGHER: THANK YOU, MR. BEAUTROW.

18 BOARD MEMBER BEAUTROW: I'M NOT KIDDING. WE
19 REALLY HAVE A COMPETENT STAFF. THAT GUY, HE KNEW RIGHT
20 WHAT'S IT'S ALL ABOUT. VERY IMPRESSIVE.

21 BOARD MEMBER BREMBERG: I DON'T KNOW IF I TOLD
22 YOU OR NOT, BUT OUR SECOND ANNUAL HOUSEHOLD HAZARDOUS
23 WASTE COLLECTION WENT UP BY ABOUT 90 PERCENT
24 PARTICIPATION. WE WERE ABSOLUTELY OVERWHELMED,
25 ASTONISHED, DELIGHTED. WE HAD OVER 900 PEOPLE THAT CAME

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1 IN, AND 800 OF THEM WERE FIRST-TIME PARTICIPANTS, AND IT
2 WAS ABSOLUTELY JUST GRAND.

3 MR. EOWAN: YOU HAD 900 AND 800 FIRST-TIME.

4 BOARD MEMBER BREMBERG: SO THE WORD IS GETTING
5 OUT AND PEOPLE ARE JUST DELIGHTED.

6 CHAIRMAN GALLAGHER: CHECK OUT TIME IN THE MOTEL
7 IS 12 NOON, THOSE OF YOU WHO HAVE NOT CHECKED OUT.

8 DECLARE THIS MEETING ADJOURNED.

9

10 (END OF PROCEEDINGS.)

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REPORTER'S CERTIFICATE

I, BETH C. DRAIN HEREBY CERTIFY THAT ON THE
17TH OF NOVEMBER, 1988, I DID REPORT IN
SHORTHAND THE TESTIMONY AND PROCEEDINGS OF THE FOREGOING
HEARING; THAT AT THE CONCLUSION OF THE ABOVE ENTITLED MATTER, I
DID TRANSCRIBE MY SHORTHAND NOTES INTO TYPEWRITING, AND THAT
THE FOREGOING TRANSCRIPT IS A TRUE AND CORRECT COPY OF MY
SHORTHAND NOTES THEREOF.

Beth C. Drain

CERTIFIED SHORTHAND REPORTER

CERTIFICATE NUMBER 7152



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